



**ANVIL** <sup>TM</sup>  
INTERNATIONAL, INC.

Formerly Grinnell



# Anvil Pipe Hangers and Supports

## PRICE LIST and Condensed Catalog

***PH-12.00***

***EFFECTIVE DATE: December 6, 2000***

***Cancels Price List of January 1, 1999***

***Subject To Change Without Notice***

### ***New Items:***

Fig. 243A & Fig. 244A- Pipe Straps

Fig. 265 - Adjustable Pipe Saddle Support

Fig. 284 - Metal Deck Hanger

Fig. 590 - Adjustable Clevis for Ductile Iron Pipe

Fig. CT-65 - Yellow Dichromate Finish

Fig. CT-69 - Yellow Dichromate Finish

Fig. CT-99 - Yellow Dichromate Finish

Fig. CT-255 - Copper Tubing Alignment Guide

Anvil Compliances and Approvals

Anvil MSS and Federal Spec. Cross Reference

***ISO 9000 Registered***

*Protective coatings:	Net Price/cwt*	Min. Charge*
Hot Dip Galvanizing	\$38.00	\$25.00
Electro Plating (zinc & copper)	\$38.00	\$25.00
Painting (one coat Red oxide Primer) Mil. Spec. TT-P-636	\$38.00	\$25.00
Sand Blast	\$38.00	\$25.00

\*Above prices not subject to discount.

- Some products cannot be Galvanized due to design (swivels, hinged sections or mating components with close tolerances). Check with nearest Anvil office when questionable. Products that cannot be Hot Dipped will be electroplated.
- Spring Hinges will be Galvanized except spring coils which will be furnished Neoprene coated.
- All threaded items will be furnished electro-galvanized.
- Hot Dip galvanizing is available P.O.A.
- Standard black finish is unpainted and is referred to as "plain" in this document.

## CONDITIONS AND TERMS OF SALE

**1. CONTROLLING PROVISIONS:** These terms and conditions shall control with respect to any purchase order or sale of Seller's products. No waiver, alteration or modification of these terms and conditions whether on Buyer's purchase order or otherwise shall be valid unless the waiver, alteration or modification is specifically accepted in writing and signed by an authorized representative of Seller.

**2. DELIVERY:** Seller will make every effort to complete delivery of products as indicated on Seller's acceptance of an order, but Seller assumes no responsibility or liability, and will accept no back-charge, for loss or damage due to delay or inability to deliver caused by acts of God, war, labor difficulties, accident, delays of carriers, by contractors or suppliers, inability to obtain materials, shortages of fuel and energy, or any other causes of any kind whatever beyond the control of Seller. Seller may terminate any contract of sale of its products without liability of any nature, by written notice to Buyer, in the event that the delay in delivery or performance resulting from the any of the aforesaid causes shall continue for a period of sixty (60) days. Under no circumstances shall Seller be liable for any special or consequential damages or for loss, damage, or expense (whether or not based on negligence) directly or indirectly arising from delays or failure to give notice of delay.

**3. WARRANTY:** Seller warrants for one year from the date of shipment Seller's manufactured products to the extent that Seller will replace those having defects in materials or workmanship when used for the purpose and in the manner which Seller recommends. If Seller's examination shall disclose to its satisfaction that the products are defective, and an adjustment is required, the amount of such products only and no allowance will be made for labor or expense of repairing or replacing defective products or workmanship or damage resulting from the same. Seller warrants the products which it sells of other manufacturers to the extent of the warranties of their respective makers. Where engineering design or fabrication work is supplied. Buyer's acceptance of Seller's design or of delivery of work shall relieve Seller of all further obligation, other than as expressed in Seller's product warranty. THIS IS SELLER'S SOLE WARRANTY. SELLER MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED: AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED SELLER'S AFORESTATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS WARRANTY. Seller neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of its engineering designs or products. This warranty shall not apply to any products or parts of products which (a) have been repaired or altered outside of Seller's factory, in any manner; or (b) have been subjected to misuse, negligence or accidents; or (c) have been used in a manner contrary to Seller's instructions or recommendations. Seller shall not be responsible for design errors due to inaccurate or incomplete information supplied by Buyer or its representatives.

**4. SELLER'S LIABILITY:** Seller will not be liable for any loss, damage, cost repairs, incidental or consequential damages of any kind, whether based upon warranty (except for the obligation accepted by Seller under "Warranty" above), contract or negligence, arising in connections with the design, manufacture, sale, use or repair of the products or of the engineering designs supplied to Buyer.

**5. RETURNS:** Seller cannot accept return of any products unless its written permission has been first obtained, in which case same will be credited subject to the following: (a) All material returned must, on its arrival at Seller's plant, be found to be in first-class condition; if not, cost of putting in saleable condition will be deducted from credit memoranda. (b) A handling charge deduction of twenty percent (20%) will be made from all credit memoranda issued for material returned. (c) Transportation charges, if not prepaid, will be deducted from credit memoranda.

**6. SHIPMENTS:** All products sent out will be carefully examined, counted and packed. The cost of any special packing or special handling caused by Buyer's requirements or requests shall be added to the amount of the order. No claim for shortages will be allowed unless made in writing within ten (10) days of receipt of a shipment. Claims for products damaged or lost in transit should be made on the carrier, as Seller's responsibility ceases, and title passes, on delivery to the carrier.

**7. SPECIAL PRODUCTS:** Orders covering special or nonstandard products are not subject to cancellation except on such terms as Seller may specify on application.

**8. PRICES AND DESIGNS:** Prices and designs are subject to change without notice. All prices are F.O.B. Point of Shipment, unless otherwise stated.

**9. TAXES:** The amount of any sales, excise or other taxes, if any, applicable to the products covered by this order, shall be added to the purchase price and shall be paid by Buyer unless Buyer provides Seller with an exemption certificate acceptable to the taxing authorities.

**10. NUCLEAR PLANTS:** Where the products, engineering design or fabrication is for nuclear plant applications, Buyer agrees: (a) to take all necessary steps to add Seller as an insured under the American Nuclear Insurer's (ANI) pool and under the Mutual Atomic Energy Reinsurance Pool (MAERP) for property damage and liability insurance and if necessary steps could have been taken, but are not taken, Buyer shall hold Seller harmless against all such losses which could have been thus covered, (b) to hold Seller harmless with respect to any personal injury (or death), property damage or other loss in a nuclear incident which is caused directly or indirectly by defective design, material, or workmanship furnished by Seller and which is covered by insurance maintained by Buyer (or which could be so covered buy with respect to which Buyer has elected to self-insure), and further agrees to waive subrogation by its carriers of such insurance against Seller, and (c) as to nuclear hazards for which Buyer cannot obtain insurance coverage, the liability of Seller for any personal injury (or death), property damage or other loss directly caused by defective design, material, or workmanship furnished by Seller shall not exceed the value of the material furnished by Seller at the time of the loss occurrence.

**11. MINIMUM INVOICE:** \$100.00 plus transportation.

**12. TERMS:** Cash, net 30 days unless otherwise specified.

## Freight Allowances

All prices are F.O.B. point of shipment. On shipments weighing 2500 lbs. or more, rail freight or motor freight at the lowest published rate is allowed to all U.S. rail points or all U.S. highway points listed in published tariffs (Hawaii and Alaska excluded) from your nearest Anvil location.

## Exceptions

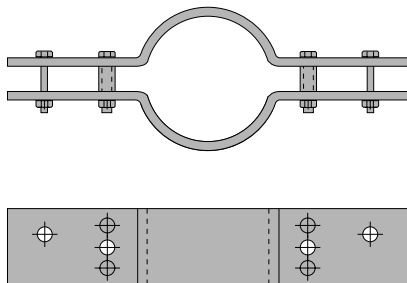
All Constant Supports, Spring Hangers, Sway Braces and all Engineered, Bundled and Tagged Hanger Assemblies are F.O.B. Plants, with No Freight Allowed.

**14 Adjustable Beam Clamp****14***Carbon steel*

Size	Price Each		Std. Pack	Wt. (approx.) Lbs. Each
	Plain	Galv.		
3/8"	\$15.05	\$20.09	Bulk	1.20
1/2"	\$22.06	\$29.12	Bulk	1.70
5/8"	\$27.08	\$36.11	Bulk	2.20

Recommended for supporting piping from the bottom flange of beams.  
Complies with Federal Specifications WW-H171E Type 54,  
A-A-1192A Type 27. Complies with MSS SP-69 Type 27.

**ORDERING:** Specify rod size and figure number.

**40 Riser Clamp****40***Carbon steel*

Size	Price Each	Std. Pack	Wt. (approx.) Lbs. Each
2"	\$461.74	Bulk	17.50
2 1/2"	\$472.74	Bulk	19.10
3"	\$515.74	Bulk	29.40
4"	\$559.83	Bulk	38.50
5"	\$652.32	Bulk	43.20
6"	\$705.22	Bulk	56.80
8"	\$826.47	Bulk	79.20
10"	\$1,198.74	Bulk	143.30
12"	\$1,741.04	Bulk	183.70
14"	\$2,184.26	Bulk	194.50
16"	\$2,841.85	Bulk	224.70
18"	\$3,043.49	Bulk	280.70
20"	\$5,091.97	Bulk	429.10
24"	\$5,515.10	Bulk	465.10

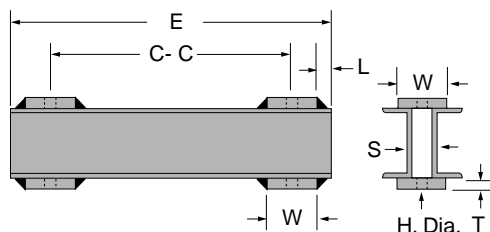
**SERVICE:** Riser Clamps are used for the support of vertical piping.  
Load is carried by shear lugs which are welded to the pipe. Shear lugs  
not provided.

Complies with Federal Specifications A-A-1192A Type 42 and  
MSS SP-69 Type 42.

**ORDERING:** Specify fig. 40 riser clamp, pipe size, finish. Note: If  
maximum recommended loads are exceeded, refer to fig. 40-SD  
special design riser clamp. galvanized price P.O.A.

**45 Channel Assembly****45**

All prices POA



**ORDERING:** Specify fig. 45 channel assembly, (channel size),  
(Rod Size), (C to C), E=C to C+ 2L+W

Channel Mat'l - ASTM A-36 Washer Plate Mat'l-ASTM A-36 or  
A-515 GR 65-70

**46 Universal Trapeze Assembly****46***carbon steel*

Trapeze assembly to be suspended by two rods and is designed for top loading.

**ORDERING:** Specify size number, figure number, name, C to C dimension and hole size "H". If holes "J" or "D" are required, also specify hole size and dimensions K, B, and L.

Reinforcing plates (Fig. 60) are required for sizes 3 thru 6 for each hole. The cost of the required reinforcing plates will be added to the above prices.

Weights on application.

**Price each with two holes – plain**

C to C (inches)	Size No.					
	1	2	3	4	5	6
12	\$106.86	\$133.53	\$217.12	\$267.31	\$363.43	\$434.94
14	\$109.68	\$137.24	\$221.35	\$273.46	\$371.38	\$444.55
16	\$112.50	\$140.96	\$225.58	\$279.62	\$379.33	\$454.17
18	\$115.32	\$144.68	\$229.81	\$285.77	\$387.28	\$463.78
20	\$118.14	\$148.40	\$234.04	\$291.92	\$395.22	\$473.40
22	\$120.96	\$152.12	\$238.27	\$298.08	\$403.17	\$483.01
24	\$123.78	\$155.83	\$242.50	\$304.23	\$411.12	\$492.63
26	\$126.60	\$159.55	\$246.73	\$310.38	\$419.07	\$502.24
28	\$129.42	\$163.27	\$250.96	\$316.54	\$427.02	\$511.86
30	\$132.24	\$166.99	\$255.19	\$322.69	\$434.97	\$521.47
36	\$140.71	\$178.14	\$267.88	\$341.15	\$458.81	\$550.32
42	–	–	\$280.58	\$359.62	\$482.66	\$579.17
48	–	–	\$293.27	\$378.08	\$506.51	\$608.01
54	–	–	\$305.96	\$396.54	\$530.35	\$636.86
60	–	–	\$318.65	\$415.00	\$554.20	\$665.71

Four holes available upon request

**47 Concrete Single Lug Plate****47***carbon steel*

Structural attachment to concrete ceiling. Used in conjunction with Fig. 299 forged steel clevis.

**ORDERING:** Specify rod size, figure number and name.

Size	Price Each Plain	Std. Pack	Wt. (approx.) Lbs. Each
1/2"	\$332.40	Bulk	11.10
5/8"	\$346.38	Bulk	14.60
3/4"	\$350.17	Bulk	14.80
7/8"	\$454.21	Bulk	22.00
1"	\$468.19	Bulk	31.90
1 1/4"	\$879.89	Bulk	43.80
1 1/2"	\$984.81	Bulk	45.60
1 3/4"	\$1,423.80	Bulk	55.70
2"	\$1,643.13	Bulk	58.20

**49 Concrete Clevis Plate****49***carbon steel*

Structural attachment to concrete ceiling where flexibility is desired.  
Normally used in conjunction with Fig. 290 weldless eye nut or  
Fig. 278 welded eye rod.

**ORDERING:** Specify rod size, figure number and name.

Size	Price Each Plain	Std. Pack	Wt. (approx.) Lbs. Each
$\frac{3}{8}$ "	\$372.98	Bulk	11.80
$\frac{1}{2}$ "	\$391.62	Bulk	11.90
$\frac{5}{8}$ "	\$415.60	Bulk	15.70
$\frac{3}{4}$ "	\$420.94	Bulk	16.90
$\frac{7}{8}$ "	\$535.48	Bulk	18.10
1"	\$552.81	Bulk	36.90
1 $\frac{1}{4}$ "	\$933.77	Bulk	40.90
1 $\frac{1}{2}$ "	\$1,057.64	Bulk	59.80
1 $\frac{3}{4}$ "	\$1,498.55	Bulk	93.60
2"	\$2,011.38	Bulk	100.00

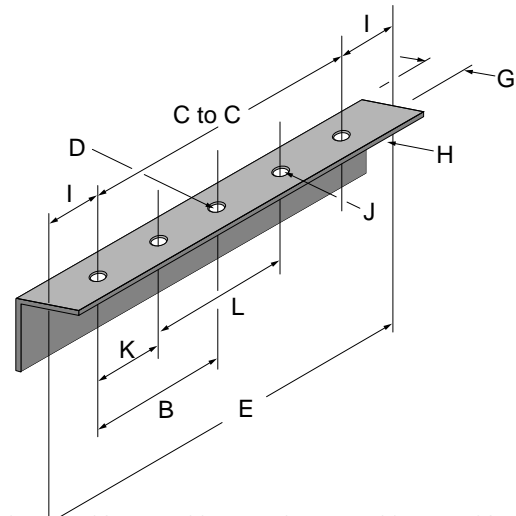
**50 Equal Leg Angle for Trapeze Assembly****50***carbon steel*

**ORDERING – IF SINGLE HOLE “H” IS REQUIRED:** Specify: Fig. 50 Angle, (Angle Size and Total Weight), (E, G, H, I Dimensions).

**ORDERING – IF TWO HOLES “H” ARE REQUIRED:** Specify: Fig. 50 Angle, (Angle Size and Total Weight), (C to C, E, G, H Dimensions).

**ORDERING – IF TWO HOLES “H” AND HOLE “D” ARE REQUIRED:** Specify: Fig. 50 Angle, (Angle Size and Total Weight), (B, C to C, D, E, G, H, Dimensions).

**ORDERING – IF TWO HOLES “H” AND TWO HOLES “J” ARE REQUIRED:** Specify: Fig. 50 Angle, (Angle Size and Total Weight), (B, C to C, E, G, H, J, K, L Dimensions).



Angle Size	8"	10"	12"	14"	16"	18"	20"	22"	24"	28"	30"
1 $\frac{1}{2}$ " x $\frac{1}{4}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
2" x $\frac{1}{4}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
2" x $\frac{3}{8}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
2 $\frac{1}{2}$ " x $\frac{3}{8}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
3" x $\frac{3}{8}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
3" x $\frac{1}{2}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
4" x $\frac{1}{2}$ "	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA

**52 Concrete Rod Attachment Plate****52***carbon steel*

Structural attachment to concrete ceiling where vertical adjustment is desired. Normally used with threaded rod and nut.

**ORDERING:** Specify rod size, figure number and name.

Size	Price Each Plain	Std. Pack	Wt. (approx.) Lbs. Each
$\frac{3}{8}$ "	\$347.67	Bulk	11.60
$\frac{1}{2}$ "	\$347.67	Bulk	11.60
$\frac{5}{8}$ "	\$371.69	Bulk	15.10
$\frac{3}{4}$ "	\$376.98	Bulk	16.10
$\frac{7}{8}$ "	\$494.20	Bulk	16.70
1"	\$494.20	Bulk	34.90

**54 Two Hole Structural Welding Lug****54***carbon steel*

For single rod suspension of Fig. 81-H, Type B and C constant supports.

**ORDERING:** Specify rod size, figure number, name and "H" dimension.

Size	Price Each		Std. Weight each based on "H" dim.			
	Plain	Pack	1½"	2"	3"	4"
½"	\$7.84	Bulk	1.40	1.70	2.20	-
⅝"	\$8.84	Bulk	1.40	1.60	2.20	-
¾"	\$10.79	Bulk	1.30	1.60	2.10	2.60
7⁄8"	\$13.73	Bulk	1.30	1.50	2.10	2.60
1"	\$19.63	Bulk	-	2.60	3.50	4.30
1¼"	\$57.40	Bulk	-	5.00	6.50	7.90
1½"	\$115.91	Bulk	-	-	10.70	12.80
1¾"	\$115.91	Bulk	-	-	10.40	12.50
2"	\$195.83	Bulk	-	-	-	16.00
2¼"	\$195.83	Bulk	-	-	-	15.60

**55 Structural Welding Lug****55***carbon steel*

For attachment to structural steel in conjunction with the Fig. 299 clevis and type "C" variable spring hanger and type "C" constant support.

Complies with Federal Specification WW-H-171E Type 57 and A-A-1192A Type 57. Complies with MSS SP-69 Type 57.

**ORDERING:** Specify rod size, figure number, name, and whether lug is long or short.

\* = Rod Diameter over 1"

Size	Price Each		Std. Pack	Wt. (approx.) Lbs. Each	
	short	long		short	long
½"	\$5.52	\$6.89	Bulk	0.48	0.75
⅝"	\$5.52	\$6.89	Bulk	0.41	0.68
¾"	\$6.42	\$8.47	Bulk	0.60	1.00
7⁄8"	\$7.58	\$8.94	Bulk	0.71	1.00
1"	\$17.36	\$19.57	Bulk	1.20	1.60
1¼"	\$34.83	\$39.04	Bulk	3.00	3.70
1½"	\$71.03	\$78.24	Bulk	4.80	6.40
1¾"	\$67.03	\$73.77	Bulk	4.70	6.30
2"	\$112.07	\$90.71	Bulk	4.20	8.80
2¼"	\$126.70	-	Bulk	7.60	-
2½"	\$238.82	-	Bulk	15.50	-
2¾"	\$269.18	-	Bulk	15.10	-
3"	\$283.86	-	Bulk	16.00	-
3¼"	\$328.84	-	Bulk	18.90	-
3½"	\$433.55	-	Bulk	26.20	-
3½" **	\$507.94	-	Bulk	31.30	-
3¾" **	\$432.76	-	Bulk	25.70	-
3¾" **	\$582.34	-	Bulk	35.90	-

**60 Steel Washer Plate****60***carbon steel*

A heavy duty washer plate used on top of channels or angles back-to-back for supporting pipe with rods or U-bolts.

**ORDERING:** Specify rod size, figure number and name

Size	Price Each plain	Std. Pack	Wt. (approx.) Lbs. Each
3⁄8"	\$4.58	Bulk	0.62
½"	\$4.58	Bulk	0.62
5⁄8"	\$5.26	Bulk	0.91
¾"	\$10.89	Bulk	1.60
7⁄8"	\$14.42	Bulk	2.20
1"	\$16.31	Bulk	2.10
1¼"	\$28.46	Bulk	3.30
1½"	\$36.46	Bulk	4.80
1¾"	\$44.41	Bulk	4.70
2"	\$46.72	Bulk	4.50
2¼"	\$55.77	Bulk	6.60
2½"	\$60.40	Bulk	6.40
2¾"	\$73.98	Bulk	6.20
3"	\$79.66	Bulk	5.90
3¼"	\$84.29	Bulk	5.60
3½"	\$119.54	Bulk	8.10
3¾"	\$175.31	Bulk	7.80

## 62 Adjustable Pipe Stanchion

62

For painted finish, and galvanized finish pricing, see page 2.

### TO ORDER SPECIFY:

- (1) **Complete:** Fig. 62 Adj. Pipe Stanchion, (Type), (Comb. No.), (Mat'l Spec.), (Pipe or Ell Size), (E,F),
- (2) **Complete-Top Portion Alloy, Bottom Portion C.S.:** Fig. 62 Adj. Pipe Stanchion, (Type), (Comb. No.), (Top Mat'l Spec.), (Bottom Mat'l Spec.), (Pipe or Ell Size), (E,F,G Dim.),
- (3) **Top Portion only:** Fig. 62 Adj. Pipe Stanchion Top Portion only, (Type), (Comb. No.), (Mat'l Spec.), (Pipe or Ell Size), (E Dim).
- (4) **Bottom Portion w/Base Plate:** Fig. 62 Adj. Pipe Stanchion Bottom Portion only, (Comb. No.), (Mat'l. Spec.), (F,G Dim).

**Note:** See current Pipe Hanger Catalog for formulas to determine dimensions and combination number.

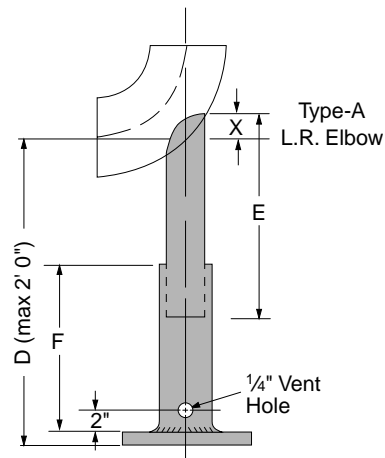


Fig. 62, Type A – L. R. Elbow (top stanchion sch. 40 nominal pipe size)

	1½"		2½"		4"		5"	
Nominal Elbow Size	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each
2"	P.O.A.	12						
2½"	P.O.A.	12						
3"	P.O.A.	12	P.O.A.	28				
4"	P.O.A.	12	P.O.A.	28				
5"			P.O.A.	28	P.O.A.	55		
6"			P.O.A.	28	P.O.A.	55	P.O.A.	75
8"					P.O.A.	55	P.O.A.	75
10"					P.O.A.	55	P.O.A.	75
12"							P.O.A.	75
14"							P.O.A.	75
16"							P.O.A.	75
18"							P.O.A.	75

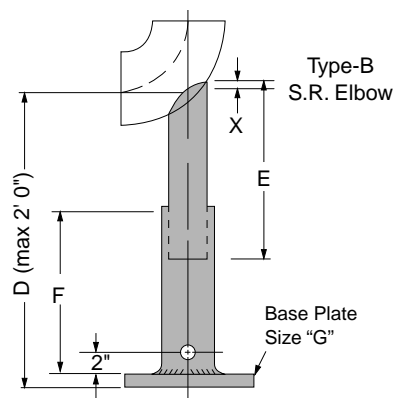


Fig. 62, Type B – S. R. Elbow (top stanchion sch. 40 nominal pipe size)

	1½"		2½"		4"		5"	
Nominal Elbow Size	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each
2"	P.O.A.	12						
2½"	P.O.A.	12						
3"	P.O.A.	12	P.O.A.	27				
4"	P.O.A.	12	P.O.A.	27				
5"			P.O.A.	27	P.O.A.	55		
6"			P.O.A.	27	P.O.A.	55	P.O.A.	70
8"					P.O.A.	55	P.O.A.	70
10"					P.O.A.	55	P.O.A.	70
12"							P.O.A.	70
14"							P.O.A.	70
16"							P.O.A.	70
18"							P.O.A.	70

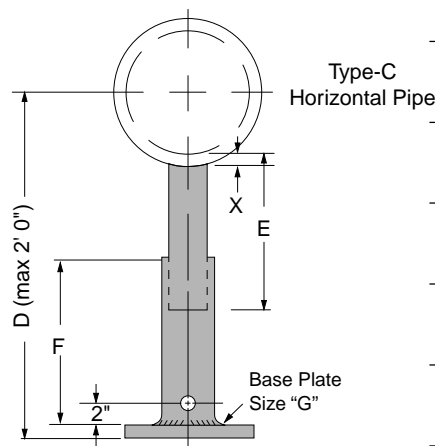


Fig. 62, Type C – Horizontal Pipe (top stanchion sch. 40 nominal pipe size)

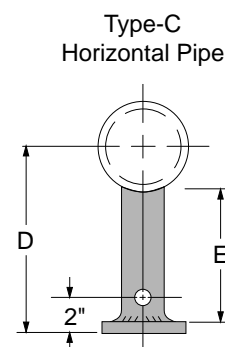
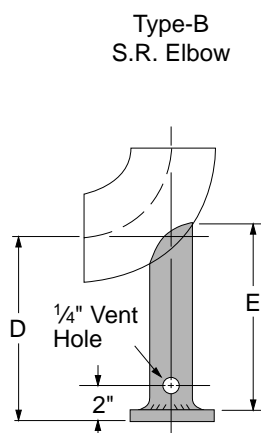
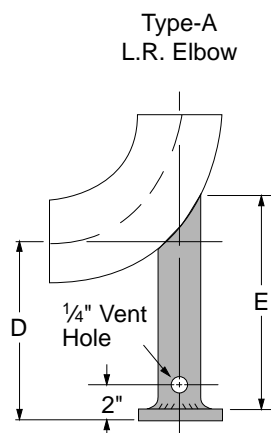
	1½"		2½"		4"		5"	
Nominal Elbow Size	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each	Price Each	Wgt. (approx.) lbs. Each
2"	P.O.A.	11						
2½"	P.O.A.	11						
3"	P.O.A.	11	P.O.A.	25				
4"	P.O.A.	11	P.O.A.	25				
5"			P.O.A.	25	P.O.A.	45		
6"			P.O.A.	25	P.O.A.	45	P.O.A.	55
8"					P.O.A.	45	P.O.A.	55
10"					P.O.A.	45	P.O.A.	55
12"							P.O.A.	55
14"							P.O.A.	55
16"							P.O.A.	55
18"							P.O.A.	55

**NOTE:** Add 30% for each addition foot of pipe where D > 2'0".

**63 Pipe Stanchion****63**

**ORDERING:** Specify Fig. 63 Pipe Stanchion, (Type), (Material Spec.), (Stanchion Size), for (Pipe or Elbow Size), D, Dimension.

For painted finish and galvanized finish pricing, see page 2.



Nominal Elbow Size	Stanchion – Weight (Approx) lbs. each by Standard Weight Pipe, Nominal Size													
	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	20"	24"
2½"	9.5	11.6												
3"	9.5	11.6	16.4											
4"	9.5	11.6	16.4	23.7										
5"	9.5	11.6	16.4	23.7	31.8									
6"			16.4	23.7	31.8	47								
8"				23.7	31.8	47	59							
10"					31.8	47	59	100						
12"						47	59	100	164					
14"						47	59	100	164	201				
16"						47	59	100	164	201	230			
18"							59	100	164	201	230	282		
20"								100	164	201	230	282		
22"									100	164	201	230	282	374
24"									100	164	201	230	282	374
26"										164	201	230	282	374
28"											201	230	282	374
30"											201	230	282	374
32"											201	230	282	374
34"											201	230	282	374
36"											201	230	282	374
42"												230	282	374

NOTE: All prices are P.O.A.



## 65 Light Duty Adjustable Clevis

65

carbon steel



For suspension of light loads, uninsulated pipe and conduit. A lock nut above the clevis yoke must be tightened securely after each adjustment to assure full rated load. Complies with Federal Specification WW-H-171E Type 12. UL Listed on sizes 2½" and larger.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each Plain	Galv.	Std. Pack	Wt. (approx.) Lbs. Each
½"	\$1.69	\$2.14	100	0.13
¾"	\$1.80	\$2.59	100	0.27
1"	\$1.92	\$2.71	100	0.28
1¼"	\$1.97	\$2.93	100	0.32
1½"	\$2.14	\$3.09	100	0.34
2"	\$2.19	\$3.32	100	0.40
2½"	\$3.83	\$5.97	50	0.81
3"	\$4.39	\$6.59	50	0.90
3½"	\$4.78	\$7.15	25	0.99
4"	\$5.75	\$9.34	25	1.40

## 66 Welded Beam Attachment

66

carbon steel



Upper attachment for welding to structural steel. Used as illustrated with bolt and nut. May also be used in the inverted position on sizes 1" and smaller. Complies with Federal Specification WW-H-171E Type 22 and A-A-1192A Type 22 Complies with MSS SP-69 Type 22.

**ORDERING:** Specify rod size, figure number, name. Specify if bolt and nut are required.

\*1¼" and larger will be furnished with Pin & Cotter.

Size	Without bolt & nut			With bolt & nut			Std. Pack
	Price Each Plain	Galv.	Wgt. (approx.) lbs. each	Price Each Plain	Galv.	Wgt. (approx.) lbs. each	
¾"	\$15.14	\$18.06	0.96	\$18.35	\$22.01	1.20	Bulk
1"	\$15.14	\$18.06	0.96	\$19.54	\$23.48	1.30	Bulk
1¼"	\$15.88	\$18.78	0.96	\$20.77	\$25.62	1.60	Bulk
1½"	\$17.34	\$23.11	1.90	\$28.83	\$37.32	2.80	Bulk
2"	\$25.11	\$32.69	2.50	\$36.09	\$47.91	3.90	Bulk
2½"	\$35.87	\$48.90	4.30	\$54.61	\$73.69	6.30	Bulk
3"	\$94.80	\$119.35	8.10	\$153.19	\$184.09	10.20	Bulk
3½"	\$163.60	\$210.59	15.60	\$294.67	\$352.25	19.00	Bulk
4"	\$199.85		18.70	\$381.65		24.20	Bulk
5"	POA		22.80	\$745.05		30.60	Bulk
6"	POA		26.40	\$830.67		36.80	Bulk
8"	POA		26.70	\$891.71		39.70	Bulk
10"	POA		26.80	\$937.14		40.80	Bulk
12"	POA		32.60	\$965.68		46.70	Bulk
14"	POA		45.10	\$1,301.53		62.10	Bulk
16"	POA		53.40	\$1,656.99		72.40	Bulk

## 67 Pipe or Conduit Hanger

67

carbon steel



For suspension by hanger rod or attached to wall. "T" slot in hanger permits side bolt to be installed after installation and setting of pipe. Consists of strap, bolt, nut-assembled.

Complies with Federal Specification A-A-1192A Type 5. Complies with MSS SP-69 Type 5.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each Galv.	Std. Pack	Wgt. (approx.) lbs. each
½"	\$2.87	50	0.21
¾"	\$2.87	50	0.22
1"	\$2.87	50	0.25
1¼"	\$2.87	50	0.27
1½"	\$3.54	50	0.29
2"	\$4.28	25	0.31
2½"	\$7.37	25	0.71
3"	\$8.11	25	0.78
4"	\$10.75	15	1.39
5"	\$14.64	Bulk	1.66
6"	\$18.52	Bulk	2.26

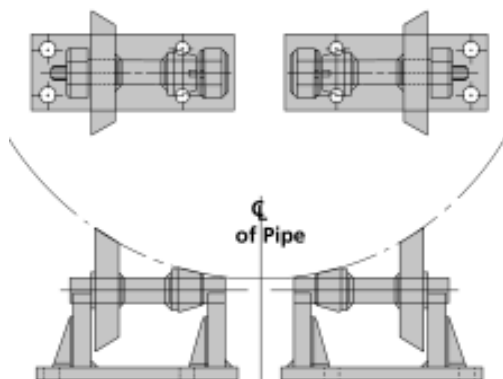
**69 Adjustable Swivel Ring, Tapped NFPA Standard****69**

*adjustable swivel ring, standard tap  
carbon steel*



For suspension of non-insulated, stationary pipe line. UL Listed and FM approved. Complies with Federal Specification WW-H-171E Type 10 and A-A-1192A Type 7. Complies with MSS SP-69 Type 7.

Size	Price Each Galv.	Std. Pack	Wgt. (approx.) lbs. each
1/2"	\$1.02	100	0.08
3/4"	\$1.02	100	0.09
1"	\$1.02	100	0.10
1 1/4"	\$1.12	100	0.11
1 1/2"	\$1.12	100	0.12
2"	\$1.18	100	0.12
2 1/2"	\$2.14	50	0.25
3"	\$2.31	50	0.30
4"	\$4.28	50	0.48
5"	\$5.80	25	0.53
6"	\$6.64	20	1.00
8"	\$7.94	20	1.00

**76SD Fabricated Roller for Larger Dia. Pipe****76SD**

Size	Price Each	Std. Pack
30-46"	\$6,808.69	190
46-72"	\$7,581.13	230

**ORDERING:** Specify pipe roll size 30" – 46" or 46" – 72", Fig 76SD fabricated pipe roller.

**80-V Model R Constant Support****80-V****81-H Model R Constant Support****81-H**

See Anvil catalog for data.



For prices, see EH price sheet.  
For weights, See Anvil catalog.

**82 Pre-Engineered Spring Hanger Short Spring (Carbon Steel)****82****C-82 Corrosion Resistant****C-82**

*galvanized: all parts galvanized except  
spring coil: neoprene coated.  
neoprene coated: all parts*

See Anvil catalog for data.



For prices, see EH price sheet.  
For weights, See Anvil catalog.

<b>86</b>	<b>C-Clamp with Set Screw and Lock Nut</b>	<b>86</b>
<b>87</b>	<b>C-Clamp with Set Screw and Fig. 89 Retaining Clip</b>	<b>87</b>
<b>88</b>	<b>C-Clamp with Set Screw Only</b>	<b>88</b>
<b>89</b>	<b>Retaining Clips (for use with Fig. 86, 88 and 95)</b>	<b>89</b>
<b>89x</b>	<b>Retaining Clip for Seismic Applications (for use with Fig. 86, 88, 92, 93, 94 and 95)</b>	<b>89X</b>

*c-clamps – ductile iron*  
*retaining clips – carbon steel*

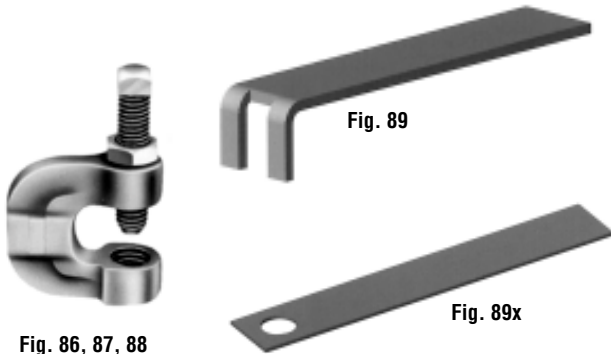
Upper attachment for securing pipe lines to American Standard I-beam, wide flange beam and channels where thickness of flange does not exceed 0.75 inches. When clamp is used with retaining clip, flange thickness may not exceed 0.62 inches. Set screw should not be overtightened.

The fig. 89 retaining clip attaches directly to the c-clamp. It is recognized by UL and FM as an appropriate means for retention when a retaining clip is specified.

The fig. 89X retaining clip attaches to the hanging rod. It is intended for use in seismic applications when used appropriately with a recommended c-clamp.

Fig. 86, 87 and 88 only, complies with Federal Specification WW-H-171E Type 23 and A-A-1192A Type 23. Complies with MSS SP-69 Type 23. UL Listed and FM approved.

**ORDERING:** Specify rod size, figure number, name and finish. Order retaining clips by size, figure number, name and length. Add 1/2" to flange width of beam for clip length.



**C-clamp with locknut: Fig. 86**

Size	Price Each		Std. Pack	wgt. (approx.) lbs. each
	Plain	Galv.		
3/8"	\$3.83	\$6.25	35	0.28
1/2"	\$4.78	\$7.71	35	0.31
5/8"	\$7.32	\$12.16	15	0.42
3/4"	\$9.91	\$16.21	10	0.55

**C-clamp with retaining clip: Fig. 87**  
**Add fig. 89 to 88 C-clamp only: Fig. 88**

3/8"	\$2.99	\$4.84	35	0.28
1/2"	\$3.49	\$5.85	35	0.31
5/8"	\$5.06	\$7.88	15	0.42
3/4"	\$7.33	\$10.70	10	0.55

**Retaining clips for C-clamps: Fig. 89**

Size	Price Each 3/8" & 1/2"		Price Each 5/8" & 3/4"		Std. Pack	wgt. (approx.), Lbs. Each			
	plain	galv.	plain	galv.		3/8"	1/2"	5/8"	3/4"
4 1/2"	\$1.74	\$2.24	\$1.80	\$2.54	Bulk	0.17	0.22	0.25	
8"	\$2.19	\$3.04	\$2.42	\$3.71	Bulk	0.28	0.37	0.43	
10"	\$2.54	\$3.60	\$2.71	\$4.23	Bulk	0.35	0.46	0.51	
14"	\$3.16	\$4.73	\$3.43	\$5.63	Bulk	0.53	0.63	0.73	

**Retaining clips : Fig. 89X**

Size	Price Each 3/8" & 1/2"		Price Each 5/8" & 3/4"		Std. Pack	wgt. (approx.) Lbs. Each			
	plain	galv.	plain	galv.		3/8" & 1/2"	5/8" & 3/4"		
6"	\$2.31	\$2.54	\$2.31	\$2.54	Bulk	0.11	0.14		
8"	\$2.31	\$3.04	\$2.31	\$3.04	Bulk	0.14	0.18		
10"	\$2.59	\$3.54	\$2.59	\$3.54	Bulk	0.18	0.23		
14"	\$3.38	\$4.73	\$3.38	\$4.73	Bulk	0.26	0.32		

**92 Universal C-clamp Standard Throat 92**

*ductile iron*



Size	Price Each		Std. Pack	wgt. (approx.) lbs. each
	Plain	Galv.		
3/8"	\$2.42	\$3.66	50	0.34
1/2"	\$3.94	\$6.64	20	0.63

For supporting pipe under roof installations with bar joist type construction, or for attachment to top or bottom flange or structural shapes where the vertical hanger rod is required to be offset from the edge of the flange. UL Listed & FM approved. Complies with Federal Specification WW-H-171E & A-A-1192A Type 19 & 23. Complies with MSS SP-69 Type 19 & 23.

**ORDERING:** Specify rod size, figure number, name, finish.

**93 Universal C-Clamp Wide Throat****93***malleable iron*

Recommended for use under roof installations with bar joist type construction, or for attachment to the top or bottom flange of structural shapes where the vertical hanger rod is required to be offset from the edge of the flange where the thickness of joist or flange does not exceed 1¼ inches. UL Listed and FM approved. Complies with Federal Specification WW-H-171E Type 23 and A-A-1192A Type 19 & 23. Complies with MSS SP-69 Type 19 & 23.



Size	Price Each Plain	Price Each Galv.	Std. Pack	wgt. (approx.) lbs. each
3/8"	\$4.06	\$5.29	40	0.41
1/2"	\$5.52	\$6.75	20	0.75

**ORDERING:** Specify rod size, figure number, name, finish.

**94 Wide Throat Top Beam C-Clamp****94***malleable iron*

For supporting pipe under roof installations with bar joist type construction. UL Listed and FM approved. Complies with Federal Specification WW-H-171E Type 19 and A-A-1192A Type 19. Complies with MSS SP-69 Type 19.



Size	Price Each Plain	Price Each Galv.	Std. Pack	wgt. (approx.) lbs. each
5/8"	\$10.30	\$12.79	20	0.66
3/4"	\$13.12	\$15.60	20	0.83

**ORDERING:** Specify rod size, figure number, name and finish.

**95 C-Clamp with Locknut****95***carbon steel*

Designed for fastening to flange of beam. Bottom hole tapped to accommodate hanger rod. 3/8" is UL Listed and 3/8" & 1/2" FM approved. Conforms with Federal Specification WW-H-171E Type 23 and A-A-1192A Type 23. Conforms with MSS SP-69 Type 23.



Size	Price Each Plain	Std. Pack	wgt. (approx.) lbs. each
3/8"	\$5.63	100	0.35
1/2"	\$7.09	50	0.41

**ORDERING:** Specify rod size, figure number and name.

**97 Adjustable Ring****97***malleable iron nut; steel ring electroplated*

For suspension of stationary pipe lines, cast iron pipe or conduit. Rod need be screwed only to the bottom of the opening in the nut to lock the ring in place and assure the full load rating of the hanger. Complies with Federal Specification WW-H-171E Type 9 and A-A-1192A Type 9. Complies with MSS SP-69 Type 9.



Size	Price Each Plain	Std. Pack	wgt. (approx.) lbs. each
1/2"	\$4.90	50	0.14
3/4"	\$4.90	35	0.15
1"	\$4.90	35	0.15
1¼"	\$5.91	50	0.16
1½"	\$5.91	50	0.17
2"	\$6.42	35	0.18
2½"	\$10.75	15	0.35
3"	\$11.71	15	0.37
4"	\$18.80	10	0.82

**ORDERING:** Specify rod size, figure number and name.

## 97C Coated Adjustable Pipe Ring

97C

*malleable iron nut; electroplated steel band with lower portion of the band PVC coated.*

For suspension of glass, aluminum, brass and tin piping. Complies with Federal Specification WW-H-171E Type 9 and A-A-1192A Type 9. Complies with MSS SP-69 Type 9.

**ORDERING:** Specify rod size, figure number and name.



Size	Price Each coated	Std. Pack	wgt. (approx.) lbs. each
1/2"	\$8.16	50	0.15
3/4"	\$8.16	35	0.15
1"	\$8.39	35	0.16
1 1/4"	\$8.50	50	0.17
1 1/2"	\$8.78	50	0.18
2"	\$9.06	35	0.19
2 1/2"	\$14.41	15	0.35
3"	\$15.03	15	0.39
4"	\$38.17	10	0.85

## 98 Pre-Engineered Spring Hanger Double Spring (Carbon Steel)

98

### C-98 Corrosion Resistant

C-98

*galvanized: all parts galvanized except spring neoprene coated.*

*neoprene coated: all parts*

See Anvil catalog for data.



For prices, see EH price sheet.  
For weights, See Anvil catalog.

## 100 Extended Clamp

100

*carbon steel*



For support of piping that allows for field adjustment from walls, floors, decks and bulkheads.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each Plain	Price Each Galv.	Std. Pack	wgt. (approx.) lbs. each
1/2"	\$38.00	\$42.60	Bulk	2.14
3/4"	\$38.90	\$43.80	Bulk	2.20
1"	\$52.95	\$57.06	Bulk	2.25
1 1/4"	\$53.49	\$57.79	Bulk	2.34
1 1/2"	\$54.28	\$58.51	Bulk	2.39
2"	\$55.84	\$62.93	Bulk	3.25
2 1/2"	\$56.57	\$64.62	Bulk	3.40
3"	\$57.60	\$67.59	Bulk	3.58
3 1/2"	\$66.08	\$76.36	Bulk	3.71
4"	\$66.08	\$77.33	Bulk	4.74
5"	\$71.28	\$84.23	Bulk	5.09
6"	\$80.66	\$117.51	Bulk	8.23
8"	\$87.01	\$127.25	Bulk	9.25

## 103 Offset Pipe Clamp

103

*carbon steel*

For support of piping at a definite distance from the wall, floors, decks and bulkheads.

**ORDERING:** Specify pipe size, figure number, name.



Size	Price Each Plain	Price Each Galv.	Std. Pack	wgt. (approx.) lbs. each
3/4"	\$47.38	\$48.46	Bulk	1.50
1"	\$47.38	\$48.46	Bulk	1.60
1 1/4"	\$47.68	\$48.71	Bulk	1.70
1 1/2"	\$48.89	\$50.46	Bulk	1.80
2"	\$50.46	\$53.85	Bulk	2.70
2 1/2"	\$51.37	\$56.82	Bulk	2.90
3"	\$52.95	\$57.79	Bulk	3.20
4"	\$59.72	\$68.55	Bulk	4.60
5"	\$64.99	\$80.29	Bulk	7.30
6"	\$80.66	\$98.87	Bulk	7.80
8"	\$88.03	\$108.68	Bulk	9.00

**104 Adjustable Swivel Ring, Split Ring****104**

Off-center hinge provides seating of pipe during erection. This ring permits rapid installation in the field. Complies with Federal Specification WW-H-171E Type 6 and A-A-1192A Type 6. Complies with MSS SP-69 Type 6.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.



Size	Price Each Plain	Price Each Galv.	Std. Pack	wgt. (approx.) lbs. each
¾"	\$15.48	\$16.16	35	0.31
1"	\$16.44	\$17.11	35	0.32
1¼"	\$17.23	\$20.16	35	0.34
1½"	\$19.37	\$20.44	65	0.41
2"	\$22.01	\$23.13	50	0.48
2½"	\$33.50	\$35.47	30	0.58
3"	\$38.62	\$41.21	20	1.00
4"	\$58.95	\$66.49	10	1.70
5"	\$75.50	\$87.21	Bulk	2.50
6"	\$109.33	\$127.96	Bulk	3.80
8"	\$142.32	\$164.84	Bulk	6.10

**108 Split Pipe Ring Only****108**

*malleable iron*

For suspension of non-insulated stationary pipe lines or conduit. May be used with rod socket fig. 110R or turnbuckle adjuster fig. 114. Complies with Federal Specification WW-H-171E Type 11 and A-A-1192A Type 11. Complies with MSS SP-69 Type 11.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.



Size	Price Each Plain	Std. Pack	wgt. (approx.) lbs. each
¾"	\$6.98	75	0.06
1½"	\$6.98	100	0.09
¾"	\$7.04	75	0.11
1"	\$7.44	50	0.13
1¼"	\$9.23	50	0.18
1½"	\$11.20	50	0.26
2"	\$12.72	65	0.33
2½"	\$18.35	15	0.44
3"	\$22.91	25	0.63
3½"	\$23.87	10	0.81
4"	\$31.75	6	0.97
6"	\$70.99	Bulk	2.60
8"	\$125.44	Bulk	5.20

**110R Socket, Rod Threaded****110R**

*malleable iron*

Intermediate attachment in hanger assembly. Normally used with split pipe ring fig. 108. UL Listed and FM Approved. Complies with Federal Specification WW-H-177E Type 16 and A-A-1192A Type 16. Complies with MSS SP-69 Type 16.

**ORDERING:** Specify rod tapping size, figure number, name, finish if other than plain.



Size	Price Each Plain	Std. Pack	wgt. (approx.) lbs. each
¼"	\$2.19	50	0.05
¾"	\$2.36	100	0.07
½"	\$2.81	50	0.13
5/8"	\$5.57	25	0.19
¾"	\$9.06	25	0.31
7/8"	\$17.79	Bulk	0.44

**112 Brace Fitting Complete****112****113 Pipe End Only****113**

*malleable iron*

For bracing piping against seismic disturbance. Two fittings normally used. One connects to the pipe attachment while the other fitting connects to the building structure.

**ORDERING:** Specify size, figure number, name.



	Fig. 112 Price Each Plain	Fig. 113 Price Each Plain	Std. Pack	Fig. 112 wgt. (approx.) lbs. each	Fig. 113 wgt. (approx.) lbs. each
Size					
1"	\$21.82	\$7.35	Bulk	0.95	0.50
1¼"	\$25.98	\$10.65	Bulk	1.40	0.80

## 114 Turnbuckle Adjuster

114

*malleable iron*

Intermediate attachment providing vertical adjustment for light pipe loads. Normally used with split ring fig. 108. Complies with Federal Specification WW-H-171E Type 15 and A-A-1192A Type 15. Complies with MSS SP-69 Type 15.

**ORDERING:** Specify rod size, figure number, name.



Size	Price Each Plain	Std. Pack	wgt. (approx.) lbs. each
1/4"	\$8.11	25	0.09
3/8"	\$8.11	50	0.28
1/2"	\$10.08	50	0.31
5/8"	\$17.02	25	0.72
3/4"	\$21.88	25	0.70

## 120 Light Duty U-Bolt

120

*carbon steel*

For support, anchor or guide of pipe line. Normally used with two hex nuts to be ordered separately.

**ORDERING:** Specify rod size and pipe size, figure number name. Furnished plain unless specified electro-galvanized.



Size Pipe	Size Rod	Price Each Plain	Galv	Std. Pack	wgt. (approx.) lbs. each
1/2"	1/4"	\$1.86	\$2.31	Bulk	0.06
3/4"	1/4"	\$1.92	\$2.42	Bulk	0.07
1"	1/4"	\$2.09	\$2.76	Bulk	0.07
1 1/4"	1/4"	\$2.25	\$2.76	Bulk	0.08
1 1/2"	1/4"	\$2.36	\$2.87	Bulk	0.09
2"	1/4"	\$2.48	\$2.99	Bulk	0.11
2 1/2"	3/8"	\$3.38	\$4.73	Bulk	0.28
3"	3/8"	\$3.38	\$4.84	Bulk	0.31
3 1/2"	3/8"	\$3.83	\$5.35	Bulk	0.35
4"	3/8"	\$3.88	\$5.75	Bulk	0.38
5"	3/8"	\$5.35	\$7.44	Bulk	0.45
6"	1/2"	\$7.15	\$11.32	Bulk	0.95
8"	1/2"	\$8.56	\$13.91	Bulk	1.20
10"	5/8"	\$14.86	\$24.20	Bulk	2.30

## 126 One Hole Clamp

126

*malleable iron*

For support of standard conduit, cable or wrought iron and steel pipe on walls or sides of beams. Not recommended for use horizontally on ceilings, bottoms of beams or similar installations.

**ORDERING:** Specify pipe size or conduit size, figure number, name, finish if other than plain. If used with lead cable, specify outside diameter of cable.



Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
3/8"	\$0.95	\$1.12	100	0.03
1/2"	\$1.35	\$1.52	100	0.03
3/4"	\$1.64	\$1.86	100	0.05
1"	\$2.42	\$3.04	75	0.09
1 1/4"	\$2.71	\$3.49	100	0.12
1 1/2"	\$3.04	\$4.06	70	0.16
2"	\$4.39	\$6.08	35	0.25
2 1/2"	\$8.56	\$11.99	50	0.49
3"	\$12.16	\$16.95	25	0.82

## 128 Ceiling Flange

128

*malleable iron*

For support of pipe line from wood beams or ceilings.

**ORDERING:** Specify pipe tapping size, figure number, name, finish if other than plain.



Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
1/4"	\$3.61	\$4.78	25	0.20

## 128R Ceiling Flange

128R

*malleable iron*

For support of pipe line from wood beams or ceilings.

**ORDERING:** Specify rod size, figure number, name, and finish if other than plain.



Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
3/8"	\$2.93	\$3.66	25	0.16
1/2"	\$3.38	\$4.61	25	0.16



**133 Beam Clamp-Standard Duty****133***carbon steel*

Designed for use as center I-beam clamp, for flange widths ranging from 4 to 8 inches. Selection of clamp size is based on the flange width. A spacer is included on the bolt and is intended to be used when fig. 133 is used with a fig. 290 weldless eye nut. The spacer may be removed when the fig. 133 is used with a fig. 278 welded eye rod on sizes where interference is present. UL Listed when used with  $\frac{3}{8}$ " -  $\frac{7}{8}$ " rod and FM Approved. Conforms to Federal Specification WW-H-171E Type 21 and A-A-1192A Type 21. Complies with MSS SP-69 Type 21.

**ORDERING:** Specify size, figure number, name.

Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
4"	\$11.52	\$14.30	25	0.89
5"	\$12.21	\$15.28	25	0.98
6"	\$14.53	\$18.06	25	1.13
7"	\$15.33	\$19.33	10	1.28
8"	\$16.38	\$20.78	10	1.41

**134 Beam Clamp - Heavy Duty****134***carbon steel*

Designed for use as center I-beam clamp, for flange widths ranging from 4 to 12 inches. Selection of clamp size is based on the flange width. A spacer is included on the bolt and is intended to be used when fig 134 is used with a fig 290 weldless eye nut. The spacer may be removed when the fig 134 is used with a fig 278 welded eye rod on sizes where interference is present. UL Listed when used with  $\frac{3}{8}$ " -  $\frac{7}{8}$ " rod and FM Approved. Conforms to Federal Specification WW-H-171E Type 21 and A-A-1192A Type 21 Complies with MSS SP-69 Type 21.

**ORDERING:** Specify size, figure number, name.

Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
4"	\$38.90	\$51.05	Bulk	3.90
5"	\$43.99	\$56.31	Bulk	4.33
6"	\$45.50	\$60.30	Bulk	4.75
7"	\$49.54	\$65.46	Bulk	5.11
8"	\$50.01	\$66.79	Bulk	5.39
9"	\$51.62	\$69.51	Bulk	5.74
10"	\$52.67	\$71.48	Bulk	6.03
11"	\$79.98	\$88.55	Bulk	6.31
12"	\$82.64	\$100.12	Bulk	6.59

**135 Steel Rod Coupling (With Sight Hole)****135****135E Steel Rod Coupling (Less Sight Hole)****135E***carbon steel*

For connecting rods. Designed to accommodate up to  $1\frac{1}{2}$ " diameter rod and support up to 11630 pounds. Furnished with right hand thread, both ends. Threads  $1\frac{1}{2}$ " and smaller UNC-2B.

**ORDERING:** Specify rod size, figure number, name.



Size	Price Each 135 Plain	Price Each 135E Galv.	Std. Pack	wgt. (approx.) lbs. each
$\frac{1}{4}$ "	-	\$3.21	Bulk	0.02
$\frac{5}{16}$ "	-	\$3.32	Bulk	0.13
$\frac{3}{8}$ "	\$6.53	\$1.86	Bulk	0.11
$\frac{1}{2}$ "	\$7.66	\$2.31	Bulk	0.11
$\frac{5}{8}$ "	\$12.10	\$6.08	Bulk	0.24
$\frac{3}{4}$ "	\$23.20	\$11.48	Bulk	0.29
$\frac{7}{8}$ "	\$72.91	\$34.45	Bulk	0.57
1"	\$102.24	\$48.70	Bulk	0.71
$\frac{3}{8}$ " x $\frac{1}{4}$ "	-	\$3.38	Bulk	0.13
$\frac{1}{2}$ " x $\frac{3}{8}$ "	-	\$3.94	Bulk	0.13
$\frac{5}{8}$ " x $\frac{1}{2}$ "	-	\$5.52	Bulk	0.19
$\frac{3}{4}$ " x $\frac{5}{8}$ "	-	\$10.58	Bulk	0.32
$\frac{7}{8}$ " x $\frac{3}{4}$ "	-	\$18.02	Bulk	0.41



## 136 Rod Coupling, Straight

136

malleable iron



Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
1/4"	\$2.25	\$2.42	50	0.06
3/8"	\$2.31	\$2.59	75	0.10
1/2"	\$3.09	\$3.66	40	0.20
5/8"	\$3.54	\$4.56	25	0.33
3/4"	\$4.84	\$6.25	20	0.44
7/8"	\$8.11	\$12.05	Bulk	0.96
1"	\$10.92	\$15.20	Bulk	0.94

For connecting straight sizes of rod lengths. Visual inspection is provided. UL Listed and FM Approved.

**ORDERING:** Specify rod size, figure number, name, finish if other than plain. Furnished with right hand UNC threads only.

## 136R Rod Coupling, Reducing

136R

malleable iron

For connecting rods of different diameters. UL Listed and FM Approved.

**ORDERING:** Specify rod size, figure number, name, finish if other than plain. Furnished with right hand UNC threads only.



Size	Price Each Plain	Price Each Galv	Std. Pack	wgt. (approx.) lbs. each
3/8" x 1/4"	\$4.50	\$5.18	75	0.1
1/2" x 3/8"	\$5.63	\$7.20	40	0.21

## 137 Standard U-Bolt

137

carbon steel U-bolts and finished hex nuts



For support, anchor or guide of heavy loads. Used with channels, brackets or steel angles. Complies with Federal Specification WW-H-171E, Type 24 and A-A-1192A Type 24. Complies with MSS SP-69 Type-24.

**ORDERING:** Specify rod size, pipe size, figure number, name, finish if other than plain. U-bolts can be furnished with longer tangents or with longer threads at additional costs as shown. Furnished with four hex nuts unless otherwise specified.

Size Pipe	Size Rod	with four hex nuts plain	galv.	add to price for each add'l 3" of tangent or fraction	add to price for each add'l 2 1/2" of tangent or fraction	std. pack	weight (approx.) lbs. each with nuts
1/2"	1/4"	\$2.42	\$3.04	\$1.80	\$2.99	50	0.11
3/4"	1/4"	\$2.42	\$3.09	\$1.80	\$2.99	50	0.12
1"	1/4"	\$2.71	\$3.21	\$1.80	\$2.99	50	0.12
1 1/4"	3/8"	\$3.09	\$3.78	\$2.48	\$0.73	50	0.28
1 1/2"	3/8"	\$3.43	\$3.78	\$2.48	\$2.99	50	0.30
2"	3/8"	\$3.71	\$4.16	\$2.48	\$2.99	50	0.33
2 1/2"	1/2"	\$6.20	\$6.98	\$4.78	\$5.52	50	0.73
3"	1/2"	\$6.53	\$8.11	\$4.78	\$5.52	50	0.78
3 1/2"	1/2"	\$6.92	\$8.73	\$4.78	\$5.52	50	0.84
4"	1/2"	\$6.98	\$8.84	\$4.78	\$5.52	50	0.90
5"	1/2"	\$7.37	\$11.03	\$4.78	\$5.52	50	1.00
6"	5/8"	\$13.00	\$18.58	\$7.37	\$7.15	25	2.00
8"	5/8"	\$14.92	\$20.83	\$7.37	\$7.15	25	2.30
10"	3/4"	\$23.93	\$34.57	\$11.48	\$9.29	Bulk	4.90
12"	7/8"	\$31.92	\$48.98	\$14.98	\$9.80	Bulk	7.70
14"	7/8"	\$52.41	\$77.64	\$15.20	\$9.91	Bulk	8.30
16"	7/8"	\$60.74	\$92.16	\$15.20	\$9.91	Bulk	9.20
18"	1"	\$90.52	\$132.24	\$19.31	\$10.41	Bulk	13.50
20"	1"	\$91.49	\$144.12	\$19.31	\$10.41	Bulk	14.60
24"	1"	\$105.45	\$163.10	\$19.31	\$10.41	Bulk	16.90
30"	1"	\$222.71	\$299.23	\$19.31	\$10.41	Bulk	19.20
36"	1"	\$362.84	\$564.67	\$19.31	\$10.41	Bulk	23.20

**137C Coated U-Bolt****137C**

carbon steel U-bolts and finished hex nuts with nonthreaded portion of U-bolt PVC coated.

For support, anchor or guide of glass, aluminum, brass, or tin and PVC piping.

Complies with Federal Specification WW-H-171E Type 24 and A-A-1192A Type 24.  
Complies with MSS SP-69 Type 24.

**ORDERING:** Specify rod size, pipe size, figure number, name. Furnished with four hex nuts unless otherwise specified.



Size pipe	Size rod	price each coated w/ 4 hex nuts	std. pack	wgt. (approx.) lbs. each
1/2"	1/4"	\$11.77	50	0.11
3/4"	1/4"	\$12.05	50	0.12
1"	1/4"	\$12.62	50	0.12
1 1/4"	3/8"	\$14.81	50	0.28
1 1/2"	3/8"	\$15.48	50	0.30
2"	3/8"	\$16.50	50	0.33
2 1/2"	1/2"	\$23.59	50	0.73
3"	1/2"	\$25.67	50	0.78
3 1/2"	1/2"	\$26.96	50	0.84
4"	1/2"	\$28.83	50	0.90
5"	1/2"	\$32.31	50	1.00
6"	5/8"	\$50.56	25	2.00
8"	5/8"	\$59.40	25	2.30

**138 Extension Split Pipe Clamp (Tapped For Iron Pipe Threaded Nipple)****138****138R Imported - Extension Split Pipe Clamp (For Threaded Rod)****138R**

malleable iron



Furnished tapped for an iron pipe threaded nipple (fig. 138) or for rod (fig. 138R). When used with nipple, resultant rigidity permits support of pipe from wall or floor. Complies with Federal Specification WW-H-171E Type 25 and A-A-1192A Type 12.  
Complies with MSS SP-69 Type 12.

**ORDERING:** Specify rod size, figure number, name, finish if other than plain.

Fig. 138R - Not Domestically Manufactured

	price each	price each	price each	price each	std. pack
Size	138 plain	138R plain	138 galv.	138R galv.	
3/8"	\$5.13	\$4.78	\$5.57	\$5.57	75
1/2"	\$5.52	\$4.84	\$6.42	\$5.75	50
3/4"	\$5.75	\$5.30	\$6.59	\$6.14	50
1"	\$5.97	\$5.57	\$6.59	\$6.53	25
1 1/4"	\$8.11	\$6.87	\$8.89	\$8.05	25
1 1/2"	\$9.80	\$9.96	\$11.43	\$11.60	25
2"	\$13.12	\$13.29	\$15.31	\$15.54	25
2 1/2"	-	\$26.51	-	\$31.02	Bulk
3"	-	\$31.52	-	\$36.82	Bulk

**140 Hanger Rod, Machine Threaded Both Ends, Right Hand Threads****140**

carbon steel

note: for left hand threads, see fig. 253

length inches	price each by rod size-inches						std. pack
	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
8	\$4.97	\$8.11	\$11.57	\$16.38	\$20.78	\$30.45	Bulk
10	\$5.79	\$9.21	\$13.26	\$18.99	\$24.08	\$34.67	Bulk
12	\$6.60	\$10.42	\$14.87	\$21.70	\$27.49	\$38.90	Bulk
14	\$7.35	\$11.57	\$16.56	\$24.31	\$30.79	\$43.41	Bulk
18	\$8.73	\$14.00	\$20.14	\$30.91	\$37.50	\$51.45	Bulk
24	\$10.93	\$17.59	\$25.11	\$37.50	\$47.63	\$64.88	Bulk
30	\$13.02	\$21.24	\$29.92	\$45.43	\$57.76	\$77.90	Bulk
36	\$15.28	\$25.11	\$32.07	\$53.36	\$67.89	\$90.87	Bulk
42	\$17.42	\$28.36	\$40.16	\$61.24	\$77.90	\$103.65	Bulk
48	\$19.50	\$32.07	\$45.25	\$69.16	\$88.03	\$116.68	Bulk
54	\$21.76	\$35.60	\$50.29	\$77.21	\$97.92	\$129.70	Bulk
60	\$23.90	\$38.67	\$55.28	\$85.25	\$108.00	\$142.78	Bulk
66	\$26.05	\$42.89	\$60.37	\$92.95	\$118.01	\$155.63	Bulk
72	\$28.18	\$42.89	\$65.46	\$100.88	\$128.19	\$168.42	Bulk

For each additional foot of rod or fraction thereof, add following to above prices for 72 inch lengths

\$4.40	\$7.52	\$12.16	\$17.53	\$24.49	\$29.05
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**146 Continuous Thread Rod**

**146**

carbon steel



Furnished plain and electro-galv. in 6, 10 or 12 ft. lengths.

**ORDERING:** Specify rod size and length, figure number, name, finish if other than plain.

size	price each plain	price each galv.	std. pack	wgt. (approx.) lbs./ft.
1/4"	\$1.07	\$1.41	48	0.12
3/8"	\$1.18	\$1.97	24	0.30
1/2"	\$1.86	\$3.38	12	0.53
5/8"	\$2.64	\$5.13	6	0.84
3/4"	\$4.68	\$8.11	6	1.20
7/8"	\$5.85	\$10.70	4	1.70

**148 Rod with Eye End**

**148**

carbon steel

Large diameter eye rod with load ratings from 41,580 to 154,000 pounds. Threads 3 inch and smaller UNC. 3 1/4 inch and larger 8UN.

**ORDERING:** Specify rod size, figure number, name and "L" dimension.



size Rod sizes	Std Min. Rod lgth (inches)	std thrd length (inches)	prices (min. lgth) each	add to min. length, prices for each add'l foot or fraction thereof	std pack	weight lbs. Each min. lgth.
2 3/4"	19	12	POA	POA	Bulk	35.9
3"	20	12	POA	POA	Bulk	42.9
3 1/4"	21	12	POA	POA	Bulk	54.7
3 1/2"	24	15	POA	POA	Bulk	67.3
3 3/4"	25	15	POA	POA	Bulk	80.0
4"	26	15	POA	POA	Bulk	97.0
4 1/4"	30	18	POA	POA	Bulk	127.0
4 1/2"	30	18	POA	POA	Bulk	131.0
4 3/4"	31	18	POA	POA	Bulk	154.0
5"	32	18	POA	POA	Bulk	175.0

**152 Screw Concrete Insert**

**152**

malleable iron



size	price each plain	std. pack	wgt. (approx.) lbs. each
3/8"	\$9.96	35	0.19
1/2"	\$11.57	35	0.44
5/8"	\$14.00	30	0.56
3/4"	\$16.96	15	0.62
7/8"	\$18.06	15	1.75

Upper attachment for supporting pipe, shafting, motors and similar equipment from a concrete ceiling. Necessity of drilling holes in wooden forms is eliminated. Low overall height and four slots for nail attachments gives stability to the insert. UL Listed and FM Approved.

**ORDERING:** Specify rod size, figure number, name.

## 153 Pipe Hanger Flange

153

*malleable iron*

For support of pipe lines or conduit from ceilings.  
 $\frac{3}{8}$ " size takes two wood screws while sizes  $\frac{1}{2}$ "  
 through  $\frac{3}{4}$ " take three coach screws. UL Listed  
 and FM Approved.



size	price each plain	std. pack	wgt. (approx.) lbs. each
$\frac{3}{8}$ "	\$9.14	Bulk	0.42
$\frac{1}{2}$ "	\$17.13	Bulk	0.93
$\frac{3}{4}$ "	\$27.67	Bulk	2.20

**ORDERING:** Specify rod size, figure number,  
 name.

## 157 Extension Piece

157

*malleable iron*

For fastening hanger rod to various types of building  
 attachments or split rings; may be used with fig. 218.  
 UL Listed and FM Approved.



size	price each plain	price each galv.	std. pack	wgt. (approx.) lbs. each
$\frac{3}{8}$ "	\$4.81	\$5.68	35	0.20
$\frac{1}{2}$ "	\$7.47	\$8.86	20	0.40
$\frac{5}{8}$ "	\$9.67	\$11.29	15	0.44
$\frac{3}{4}$ "	\$14.18	\$16.56	Bulk	0.65
$\frac{7}{8}$ "	\$19.04	\$21.88	Bulk	0.78

**ORDERING:** Specify rod size, figure number, name.

## 160,161,162,163,164,165 Pipe Covering Protection Saddle

160,161,162,163,164,165

*carbon steel*

Complies with Federal Specification W-H-171E Types 40A and 40B and  
 A-A-1192A Type Type 39A & 39B Complies with MSS SP-69 Type 39A & 39B.

## 165A, 166A Pipe Covering Protection Saddle

165A, 166A

*alloy steel*

Complies with Federal Specification W-H-171E Types 40A and 40B and  
 A-A-1192A Type Type 39A & 39B Complies with MSS SP-69 Type 39A & 39B.



Pipe Size	Price Each – By Figure numbers and thickness of covering								std pack
	160-1"	161-1½"	162-2"	163-2½"	164-3"	165-4"	165A-4"	166A-5½"	
$\frac{3}{4}$ "	\$15.88	\$19.82	\$20.61	-	-	-	-	-	Bulk
1"	\$15.88	\$19.82	\$20.61	-	-	-	-	-	Bulk
1¼"	\$15.88	\$19.82	\$20.61	\$25.89	-	-	-	-	Bulk
1½"	\$17.23	\$19.82	\$24.32	\$25.89	-	-	-	-	Bulk
2"	\$17.23	\$21.51	\$24.32	\$25.89	\$27.64	-	-	-	Bulk
2½"	\$17.23	\$25.39	\$24.32	\$27.86	\$27.64	-	-	-	Bulk
3"	\$24.77	\$25.39	\$28.60	\$27.86	\$27.64	-	-	-	Bulk
3½"	\$26.46	\$25.73	\$28.60	\$30.29	\$27.64	-	-	-	Bulk
4"	\$26.46	\$25.73	\$28.60	\$30.29	\$27.64	\$44.98	POA	POA	Bulk
5"	\$26.46	\$25.73	\$28.60	\$30.29	\$27.64	\$44.98	POA	POA	Bulk
6"	\$31.47	\$36.87	\$40.98	\$46.22	\$57.93	\$72.91	POA	POA	Bulk
8"	-	\$46.38	\$48.36	\$56.58	\$57.93	\$72.91	POA	POA	Bulk
10"	-	\$46.38	\$51.46	\$61.81	\$64.35	\$75.78	POA	POA	Bulk
12"	-	\$67.84	\$76.23	\$82.70	\$89.79	\$102.91	POA	POA	Bulk
14"	-	\$67.84	\$76.23	\$82.70	\$89.79	\$102.91	POA	POA	Bulk
16"	-	\$91.93	\$106.74	\$121.71	\$132.24	\$156.68	POA	POA	Bulk
18"	-	\$98.75	\$106.74	\$130.22	\$132.24	\$156.68	POA	POA	Bulk
20"	-	\$116.31	\$118.57	\$130.22	\$136.75	\$236.17	POA	POA	Bulk
24"	-	\$131.29	\$138.66	\$149.14	\$179.59	\$253.96	POA	POA	Bulk
30"	-	\$146.94	\$152.40	\$162.88	\$193.83	\$267.92	POA	POA	Bulk
36"	-	\$162.88	\$167.94	\$176.50	\$208.69	\$278.22	POA	POA	Bulk

Refer to Anvil catalog for weights.

**167 Insulation Protection Shield****167***carbon steel*

Precludes crushing of foam or fiber glass insulation without breaking the vapor barrier. Complies with Federal Specification WW-H-171E Type 41 and A-A-1192A Type 40. Complies with MSS SP-69 Type 40.

**ORDERING:** Specify shield size, figure number, name.

size	Price Each		wgt. (approx.)		size	Price Each		wgt. (approx.)	
	galv	std pack	lbs.			galv	std pack	lbs.	
X1A	\$8.84	Bulk	0.54		14C	\$44.08	Bulk	11.10	
1A	\$8.84	Bulk	0.69		15C	\$65.53	Bulk	11.90	
2A	\$10.03	Bulk	0.84		16C	\$65.53	Bulk	12.70	
3A	\$10.98	Bulk	0.99		17C	\$75.05	Bulk	13.60	
4A	\$11.60	Bulk	1.10		18C	\$77.58	Bulk	14.50	
5A	\$12.10	Bulk	1.30		19C	\$122.90	Bulk	21.20	
6A	\$12.67	Bulk	1.40		20C	\$123.40	Bulk	22.40	
7A	\$13.34	Bulk	1.60		21C	\$128.97	Bulk	23.60	
8A	\$14.81	Bulk	1.90		22C	\$143.22	Bulk	24.80	
9A	\$15.93	Bulk	2.70		23C	\$150.04	Bulk	25.90	
10A	\$17.45	Bulk	3.10		24C	\$157.08	Bulk	27.10	
9B	\$19.31	Bulk	4.00		25C	\$163.49	Bulk	28.30	
10B	\$21.96	Bulk	4.60		26C	\$177.00	Bulk	31.00	
11B	\$25.84	Bulk	5.10		27C	\$184.37	Bulk	31.80	
12B	\$29.50	Bulk	5.60		28C	\$191.98	Bulk	33.00	
13C	\$36.25	Bulk	10.20						

**168 Rib-Lok Shield****168***carbon steel*

Used as protection against damage to insulation from hanger. Rib keeps shield centered on hanger, with rivet hole for securing to clevis hanger. WW-H-171E Type 41 and A-A-1192A Type 40 Complies with MSS SP-69 Type 40.

**ORDERING:** Specify shield size, figure number, name.

Size	Price Each		wgt. (approx.)		Size	Price Each		wgt. (approx.)	
	galv.	std pack	lbs. each			galv.	std pack	lbs. each	
1	\$5.23	Bulk	0.40		8	\$10.25	Bulk	1.20	
2	\$5.52	Bulk	0.44		9	\$11.48	Bulk	1.28	
3	\$5.91	Bulk	0.48		10	\$11.77	Bulk	1.45	
4	\$6.30	Bulk	0.59		11	\$17.28	Bulk	2.18	
5	\$7.15	Bulk	0.67		12	\$17.40	Bulk	2.45	
6	\$7.99	Bulk	0.97		13	\$22.75	Bulk	2.75	
7	\$10.13	Bulk	1.07		14	\$23.48	Bulk	3.06	

**170 Horizontal Traveler****170**

See Anvil catalog for weights and data.

For prices, see EH price sheet.

**171 Single Pipe Roll, Complete; Adjustable Socket Only; Pipe Roll Only****171***cast iron*

For suspension of pipe from two rods where longitudinal movement due to expansion and contraction may occur. Hanger is sized for bare pipe and when insulated pipe is used., the roll must be oversized to take the insulation. Complies with Federal Specification WW-H-171E Type 42 and A-A-1192A Type 41. Complies with MSS SP-69 Type 41.



**ORDERING:** Specify pipe roll size, adjustable socket size, figure number, name. If ordering socket only, give socket size, figure number, name. See Anvil catalog for socket sizes.

See Anvil catalog for weights.

Size	Price Each		std. pack	wgt. (approx.) lbs. each
	Plain	Galv.		
1"	\$20.78	\$22.57	Bulk	0.45
1¼"	\$20.78	\$22.57	Bulk	0.48
1½"	\$21.07	\$23.09	Bulk	0.51
2"	\$22.11	\$23.90	Bulk	0.57
2½"	\$23.73	\$26.85	Bulk	1.00
3"	\$25.06	\$28.48	Bulk	1.10
3½"	\$29.12	\$33.46	Bulk	1.40
4"	\$31.83	\$37.16	Bulk	1.70
5"	\$35.31	\$43.41	Bulk	2.60
6"	\$45.84	\$59.84	Bulk	4.50
8"	\$71.07	\$93.53	Bulk	7.20
10"	\$83.97	\$113.61	Bulk	9.50
12"	\$121.72	\$171.26	Bulk	15.90
14"	\$201.36	\$277.11	Bulk	24.30
16"	\$273.53	\$372.96	Bulk	31.90
18"	\$293.95	\$404.56	Bulk	35.50
20"	\$402.70	\$551.39	Bulk	47.00
24"	\$636.35	\$862.94	Bulk	76.30
30"	\$1,256.50	\$1,707.35	Bulk	129.90

## 175 Roller Chair

175

cast iron roll, carbon steel chair, roll rod, bolts and hex nuts



For support of pipe where horizontal movement due to expansion and contraction will occur, but where no vertical adjustment is expected. If roll is to support covered pipe, refer to Anvil catalog for sizing. Complies with Federal Specification WW-H-171E Type 45 and A-A-1192A Type 44 Complies with MSS SP-69 Type 44.

**ORDERING:** Specify pipe roll size, figure number, name.

Size	Price Each Plain	Galv.	std pack	wgt. (approx.) lbs. each
2"	\$25.87	\$30.10	Bulk	1.10
2½"	\$28.02	\$33.45	Bulk	1.60
3"	\$30.33	\$36.47	Bulk	1.40
3½"	\$36.64	\$45.02	Bulk	2.60
4"	\$40.92	\$50.24	Bulk	3.00
5"	\$44.45	\$56.61	Bulk	3.90
6"	\$61.99	\$80.69	Bulk	6.00
8"	\$83.74	\$111.82	Bulk	9.00
10"	\$105.05	\$148.05	Bulk	13.80
12"	\$152.91	\$211.77	Bulk	18.90
14"	\$160.44	\$256.97	Bulk	28.10
16"	\$199.21	\$319.24	Bulk	34.90
18"	\$283.59	\$435.23	Bulk	44.40
20"	\$358.14	\$550.41	Bulk	56.30
24"	\$1,184.33	\$1,481.63	Bulk	87.60
30"	\$1,504.79	\$1,857.83	Bulk	151.30

## 177 Adjustable Pipe Roll Support

177

cast iron roll and sockets, carbon steel roll rod, thread rod and hex nuts



For support of pipe where horizontal movement due to expansion and contraction will occur, and where vertical adjustment up to 6 inches may be necessary. If roll is to support covered pipe, refer to Anvil catalog for sizing. Complies with Federal Specification WW-H-171E Type 42 and A-A-1192A Type 41. Complies with MSS SP-69 Type 41.

**ORDERING:** Specify pipe roll size, figure number, name.

Size	Price Each Plain	std pack	wgt. (approx.) lbs. each
1"	\$33.11	Bulk	1.10
1¼"	\$33.68	Bulk	1.20
1½"	\$34.27	Bulk	1.20
2"	\$34.90	Bulk	1.30
2½"	\$41.21	Bulk	2.30
3"	\$42.83	Bulk	2.40
3½"	\$44.86	Bulk	2.70
4"	\$58.17	Bulk	3.80
5"	\$67.83	Bulk	4.70
6"	\$82.94	Bulk	7.60
8"	\$127.09	Bulk	11.00
10"	\$151.81	Bulk	13.70
12"	\$178.73	Bulk	19.40
14"	\$284.28	Bulk	31.20
16"	\$345.64	Bulk	42.50
18"	\$374.69	Bulk	46.60
20"	\$543.75	Bulk	66.20
24"	\$861.32	Bulk	102.50
30"	\$2,065.03	Bulk	186.80

## 178 Spring Cushion Hanger (a set of two springs and four retainers)

178

Used on light loads where vertical movement does not exceed 1¼ inches. See Anvil catalog for sizing of hanger.

Complies with Federal Specification WW-H-171E Type 50 and A-A-1192A Type 49. Complies with MSS SP-69 Type 49.

**ORDERING:** Specify figure number, name, rod size. If used with fig.171 single pipe roll, pipe roll must be ordered separately.



Size	Price Each Plain	rod* size	max rod size	std pack	wgt. (approx.) lbs. each
1	\$405.89	¾"	¾"	Bulk	4.50
2	\$512.61	½"	¾"	Bulk	14.00
3	\$613.72	⅞"	1 ½"	Bulk	22.00

\*Other rod sizes available up to max rod size for an additional 25% charge

## 181 Adjustable Steel Yoke Pipe Roll

181

cast iron roll, carbon steel yoke and roll rod

For suspension of pipe from rod where longitudinal movement due to expansion and contraction may occur. Hanger is sized for bare pipe and when insulated pipe is used, the roll must be oversized to take the insulation. Complies with Federal Specification WW-H-171E Type 44 and A-A-1192A Type 43. Complies with MSS SP-69 Type 43.

**ORDERING:** Specify pipe roll size, figure number, name.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
2½"	\$19.16	\$24.46	Bulk	1.70
3"	\$21.35	\$28.52	Bulk	2.30
3½"	\$28.36	\$36.15	Bulk	2.50
4"	\$28.77	\$38.73	Bulk	3.20
5"	\$33.68	\$53.32	Bulk	6.30
6"	\$41.84	\$70.83	Bulk	9.30
8"	\$62.45	\$107.64	Bulk	14.50
10"	\$74.32	\$132.89	Bulk	18.80
12"	\$109.27	\$195.60	Bulk	27.70
14"	\$292.85	\$414.71	Bulk	39.10
16"	\$375.79	\$528.76	Bulk	49.10
18"	\$413.47	\$593.59	Bulk	57.80
20"	\$636.35	\$872.89	Bulk	75.90
24"	\$749.33	\$966.20	Bulk	119.30

## 191 Adjustable Pipe Stanchion Saddle with U-Bolt

191

carbon steel



**SIZE RANGE:** 2 through 12

**FINISH:** Plain

**SERVICE:** Stanchion type support where vertical adjustment is required, plus the additional stability provided by u-bolt attachment to pipe. Complies with Federal Specification A-A-1192A Type 37. Complies with MSS SP-69 Type 37.

**ORDERING:** Specify pipe size to be supported, figure number, name.

Size	Price Each	
	Plain	Galv.
2"	\$104.92	\$108.66
2½"	\$108.55	\$112.92
3"	\$111.23	\$116.20
3½"	\$114.35	\$122.44
4"	\$149.96	\$159.31
5"	\$159.08	\$169.06
6"	\$168.88	\$184.15
8"	\$188.85	\$208.53
10"	\$234.84	\$267.56
12"	\$261.48	\$298.18

## 192 Adjustable Pipe Saddle Support

192

carbon steel



**SIZE RANGE:** 2 through 12

**FINISH:** Plain

**SERVICE:** Stanchion type support where vertical adjustment is required. Complies with Federal Specification A-A-1192A Type 38. Complies with MSS SP-69 Type 38.

**ORDERING:** Specify pipe size to be supported, figure number, name.

**MAXIMUM TEMPERATURE:** 658°F

Size	Price Each	
	Plain	Galv.
2"	\$82.14	\$85.57
2½"	\$83.09	\$86.22
3"	\$84.06	\$87.49
3½"	\$93.76	\$100.39
4"	\$104.18	\$110.41
5"	\$106.84	\$113.39
6"	\$118.49	\$128.81
8"	\$128.14	\$139.44
10"	\$165.69	\$186.96
12"	\$179.42	\$202.48



**194 Light Welded Steel Bracket****194***carbon steel*

For support of loads to 750 lbs. Ends of bracket are drilled to take rods up to ¾ inch. Bracket may be installed either in position illustrated or inverted. FM Approved to 6" pipe size. Complies with Federal Specification WW-H-171E Type 32 and A-A-1192A Type 31. Complies with MSS SP-69 Type 31.



**ORDERING:** Specify bracket number, figure number, name. See Anvil catalog for dimensions.

Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
1	\$110.20	\$116.27	Bulk	3.10
2	\$112.22	\$126.29	Bulk	7.70
3	\$120.21	\$145.27	Bulk	12.80

**195 Medium Welded Steel Bracket****195***carbon steel*

For support of loads to 1,500 lbs. When bolted to a wall, a back plate is normally used. Complies with Federal Specification WW-H-171E Type 33 and A-A-1192A Type 32. Complies with MSS SP-69 Type 32.



**ORDERING:** Specify bracket number, figure number, name. See Anvil catalog for dimensions.

Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
0	\$304.78	\$339.79	Bulk	17.40
1	\$362.13	\$417.35	Bulk	27.30
2	\$478.98	\$573.44	Bulk	47.70

**199 Heavy Welded Steel Bracket****199***carbon steel*

For support of loads 3,000 lbs. When bolted to a wall, a back plate is normally used. Complies with Federal Specification WW-H-171E Type 34, A-A-1192A Type 33. Complies with MSS SP-69 Type 33.



**ORDERING:** Specify bracket number, figure number and name. See Anvil catalog for dimensions.

Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
0	\$401.78	\$446.81	Bulk	24.30
1	\$562.03	\$660.20	Bulk	51.80
2	\$663.20	\$787.41	Bulk	65.80
3	\$757.37	\$974.75	Bulk	82.10
4	\$1,156.08	\$1,421.51	Bulk	140.50
5	\$1,287.29	\$1,601.84	Bulk	166.40

**200 Anvil Hydraulic Shock and Sway Suppressor****200****C-200 Corrosion Resistant****C-200****201 Anvil Hydraulic Shock and Sway Suppressor Assembly****201****C-201 Corrosion Resistant****C-201**

See Anvil catalog for data.



For prices, see EH price sheet.  
For weights, See Anvil catalog.

**202 Side Beam Bracket****202***malleable iron*

For attachment to sides of steel or wooden beams, etc. UL Listed and FM Approved.

Complies with Federal Specification WW-H-171E Type 35 and A-A-1192A Type 34. Complies with MSS SP-69 Type 34.

**ORDERING:** Specify bolt size, figure number, name, finish.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
¾"	\$4.06	\$5.30	30	0.26
1½"	\$7.82	\$10.08	15	0.54
5/8"	\$10.41	\$13.51	8	0.94



## 206 Steel Side Beam Bracket

206

Can be fastened to side of joist or wall to support hanger rod. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 35 and A-A-1192A Type 34. Complies with MSS SP-69 Type 34.

**ORDERING:** Specify rod size, figure number, name, finish.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
3/8"	\$2.76	\$3.16	50	0.44
1/2"	\$3.09	\$3.43	50	0.43
5/8"	\$6.87	\$7.44	25	0.84

## 207 Side Beam Bracket

207

For use on sides of steel or wood beams. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 35 and A-A-1192A Type 34. Complies with MSS SP-69 Type 34.

**ORDERING:** Specify rod size, figure number, name, finish.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
3/8"	\$1.69	\$1.97	100	0.21
1/2"	\$2.25	\$2.59	Bulk	0.21

## 211 Sway Strut Assembly C-211 Corrosion Resistant

211  
C-211

See Anvil catalog for data.



For prices, see EH price sheet.  
For weights, See Anvil catalog.

## 212 Medium Pipe Clamp

212

*carbon steel*

For suspension of pipe lines where little or no insulation is required. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 4 and A-A-1192A Type 4. Complies with MSS SP-69 Type 4.

**ORDERING:** Specify pipe size, figure number, name, finish.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
1/2"	\$4.16	\$5.01	100	0.29
3/4"	\$4.16	\$5.30	100	0.33
1"	\$4.39	\$5.63	100	0.35
1 1/4"	\$5.46	\$6.20	100	0.38
1 1/2"	\$5.46	\$8.50	50	0.89
2"	\$6.75	\$9.68	50	1.10
2 1/2"	\$7.27	\$10.36	25	1.20
3"	\$8.11	\$11.48	25	1.40
3 1/2"	\$11.48	\$16.72	25	1.50
4"	\$11.48	\$16.72	25	2.30
5"	\$16.55	\$24.10	Bulk	2.60
6"	\$28.03	\$40.93	Bulk	5.40
8"	\$33.50	\$49.66	Bulk	6.50
10"	\$60.47	\$97.68	Bulk	13.60
12"	\$70.20	\$107.14	Bulk	15.20
14"	\$122.05	\$146.43	Bulk	20.50
16"	\$131.85	\$220.58	Bulk	22.30
18"	\$247.15	\$355.02	Bulk	31.60
20"	\$289.09	\$427.53	Bulk	35.80
24"	\$395.49	\$471.10	Bulk	53.10
30"	\$908.71	\$1,456.54	Bulk	113.90

## 212-FP Medium Pipe Clamp

212-FP

*carbon steel*

For earthquake bracing, to be used with Fig. 113 brace fitting. Pipe clamp bolt holes are designed to match holes in brace fitting. Complies with Federal Specification WW-H-171E Type 4 and A-A-1192A Type 4. Complies with MSS SP-69 Type 4.

**ORDERING:** Specify pipe size, figure number, name, finish.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
1/2"	\$4.00	\$5.01	100	0.29
3/4"	\$4.00	\$5.30	100	0.33
1"	\$4.16	\$5.63	100	0.35
1 1/4"	\$5.85	\$6.20	100	0.38
1 1/2"	\$5.85	\$7.89	50	0.89
2"	\$6.20	\$9.68	50	1.10
2 1/2"	\$6.59	\$10.36	25	1.20
3"	\$7.44	\$11.48	25	1.40
4"	\$11.93	\$18.58	25	2.30
5"	\$20.04	\$26.34	Bulk	2.60
6"	\$26.34	\$40.98	Bulk	5.40
8"	\$32.49	\$50.73	Bulk	6.50

**216 Heavy Pipe Clamp****216***carbon steel*

Used where the weight of the piping to be supported exceeds the load rating on standard hangers. For actual load ratings, see the Anvil catalog. Complies with Federal Specification WW-H-171E Type 4 & A-A-1192A Type 4. Complies with MSS SP-69 Type 4.

**ORDERING:** Specify pipe size, figure number, name



Size	Price Each	std pack	wgt. (approx.)
	Plain		lbs. each
3"	\$30.97	Bulk	3.60
4"	\$46.78	Bulk	5.50
5"	\$52.41	Bulk	6.30
6"	\$95.25	Bulk	11.70
8"	\$104.26	Bulk	12.50
10"	\$194.74	Bulk	22.80
12"	\$326.19	Bulk	39.10
14"	\$429.50	Bulk	48.00
16"	\$463.78	Bulk	52.60
18"	\$1,510.20	Bulk	124.10
20"	\$1,738.99	Bulk	148.50
24"	\$2,236.89	Bulk	210.20
28"	\$3,011.22	Bulk	292.70
30"	\$3,526.68	Bulk	360.70
32"	\$3,928.37	Bulk	420.40
34"	\$4,634.17	Bulk	522.90
36"	\$5,549.30	Bulk	568.90
42"	\$8,090.53	Bulk	894.40

**217 Adjustable Side Beam Clamp****217***steel*

For use where it is necessary for the hanger rod to run vertically close to the beams edge, eliminating drilling of holes in structural member. Can be adjusted to fit various beam flange widths and thicknesses. Complies with Federal Specification A-A-1192A Type 25. Complies with MSS SP-69 Type 25 when used on top of beam.

**ORDERING:** Specify type, size, figure number, name.



Size	Price Each Plain	std pack	wgt. (approx.) lbs. each
Type 1			
3"	\$12.74	25	0.80
4 <sup>5</sup> / <sub>8</sub> "	\$13.26	25	1.06
6 <sup>1</sup> / <sub>8</sub> "	\$13.95	25	1.17
7 <sup>5</sup> / <sub>8</sub> "	\$16.32	25	1.28
Type 2			
3"	POA	20	1.57
4 <sup>5</sup> / <sub>8</sub> "	POA	20	1.84
6 <sup>1</sup> / <sub>8</sub> "	POA	20	2.05
7 <sup>5</sup> / <sub>8</sub> "	POA	20	2.23
Type 3			
3"	POA	20	2.25
4 <sup>5</sup> / <sub>8</sub> "	POA	20	2.93
6 <sup>1</sup> / <sub>8</sub> "	POA	20	3.24
7 <sup>5</sup> / <sub>8</sub> "	POA	20	3.51

**218 Malleable Beam Clamp****218***malleable iron*

UL Listed and FM Approved. May be used with fig. 157 extension piece or fig. 278 welded eye rod. Complies with Federal Specification WW-H-171E Type 30 and A-A-1192A Type 30 and MSS SP-69 Type 30.

**ORDERING:** Specify figure number, name.



Size	Price Each	std pack	wgt. (approx.)
	Plain		lbs. each
	\$26.69	Bulk	2.20
	\$34.14		

**224 Alloy Steel Pipe Clamp****224***alloy steel w/s.s. U-bolt*

For suspension of pipe at service temperatures up to 1050°F and where insulation up to 4 inches will be used. Complies with Federal Specification WW-H-171E Type 2 and A-A-1192A Type 2 and MSS SP-69 Type 2.

**ORDERING:** Specify pipe size, figure number, name.



Size	Price Each	std pack	wgt. (approx.)
	Plain		lbs. each
4"	\$410.63	Bulk	4.00
6"	\$600.12	Bulk	7.50
8"	\$675.88	Bulk	9.00
10"	\$953.87	Bulk	15.80
12"	\$1,977.12	Bulk	24.30
14"	\$2,159.31	Bulk	26.30
16"	\$2,415.71	Bulk	31.00

## 227 Top Beam Clamp

227

steel jaw, hook rod with nut, spring washer and plain washer



For attachment to top flange of American Standard I-beams, wide flange beams, and roof trusses where the flange thickness does not exceed .81 inches. See Anvil catalog for sizing information. Complies with Federal Specification A-A-1192A Type 25 and MSS SP-69 Type 25.

**ORDERING:** Specify figure number, name, hook rod length.

Size	Price Each Plain	std pack	wgt. (approx.) lbs. each
Jaw 1	\$6.83	Bulk	0.38
2	\$11.17	Bulk	0.67

## 228 UFS Beam Clamp with UFS (upper) Nut Right Hand Thread

228

## 228L UFS Beam Clamp with UFS (upper) Nut Left Hand Thread

228L

forged steel



For suspension of heavy loads from American Standard I-beams and wide flange beams with flange width to 15 inches and flange thickness to 1.065. Complies with Federal Specification WW-H-171E Types 30 and 31 and A-A-1192A Type 28 & 29 and MSS SP-69 Type 28 without links and MSS SP-69 Type 29 with links.

**ORDERING:** Specify clamp size, figure number, name, rod size.

Size	Price Each Plain	Galv.	std pack	wgt. (approx.) lbs. each
No. 1	\$137.86	\$148.14	Bulk	3.30
2	\$193.83	\$215.63	Bulk	7.00
3	\$329.49	\$362.52	Bulk	10.60
4	\$487.73	\$547.87	Bulk	19.30
5	\$704.12	\$800.72	Bulk	31.00

## 230 Turnbuckle

230

forged steel



Provides adjustment up to 6". Complies with Federal Specification WW-H-171E, Type 13 and A-A-1192A Type 13. Complies with MSS SP-69 Type 13.

**ORDERING:** Specify rod size, figure number, name. Stub ends to be ordered separately if required.

Size	Price Each Plain	Galv.	std pack	wgt. (approx.) lbs. each
3/8"	\$22.06	\$23.34	Bulk	0.42
1/2"	\$27.38	\$29.40	Bulk	0.65
5/8"	\$28.59	\$31.65	Bulk	0.98
3/4"	\$38.37	\$43.05	Bulk	1.50
7/8"	\$52.67	\$58.60	Bulk	1.90
1"	\$66.39	\$74.49	Bulk	2.60
1 1/4"	\$120.15	\$134.17	Bulk	4.50
1 1/2"	\$156.50	\$176.44	Bulk	6.40
1 3/4"	\$232.55	POA	Bulk	11.00
2"	\$369.14	POA	Bulk	14.90
2 1/4"	\$801.13	POA	Bulk	19.60
2 1/2"	\$869.42	POA	Bulk	26.90

**233 Turnbuckle****233***carbon steel*

Provides adjustments up to 24 inches for rod sizes 1¼ through 5 inches. Supports loads up to 154,000 pounds. Threads 3 inch and smaller UNC-2B; 3¼ inch and larger 8UN-2B. Tapped right and left hand. Complies with Federal Specification WW-H-171E Type 13 and A-A-1192A Type 13. Complies with MSS SP-69 Type 13.



**ORDERING:** Specify rod size, figure number, name, and opening dimensions.

rod size	price each based on opening				wgt. each based on opening				std pack
	6"	12"	18"	24"	6"	12"	18"	24"	
1¼"	-	POA	POA	POA	-	5.10	6.90	8.70	Bulk
1½"	-	POA	POA	POA	-	8.20	10.70	13.20	Bulk
1¾"	-	POA	POA	POA	-	9.70	12.10	14.70	Bulk
2"	-	POA	POA	POA	-	14.60	18.40	22.30	Bulk
2¼"	-	POA	POA	POA	-	20.00	25.10	30.30	Bulk
2½"	-	POA	POA	POA	-	22.90	28.00	33.20	Bulk
2¾"	-	POA	POA	POA	22.40	28.60	34.90	41.20	Bulk
3"	POA	POA	POA	POA	36.80	44.30	51.80	59.30	Bulk
3¼"	POA	POA	POA	POA	33.00	40.50	48.00	55.00	Bulk
3½"	POA	POA	POA	POA	54.20	64.60	75.00	85.40	Bulk
3¾"	POA	POA	POA	POA	49.00	59.40	69.80	80.10	Bulk
4"	POA	POA	POA	POA	92.00	106.30	120.60	134.80	Bulk
4¼"	POA	POA	POA	POA	87.90	102.20	116.50	130.80	Bulk
4½"	POA	POA	POA	POA	222.10	243.80	265.40	287.10	Bulk
4¾"	POA	POA	POA	POA	216.00	237.70	259.30	281.00	Bulk
5"	POA	POA	POA	POA	209.60	231.30	252.10	274.60	Bulk

**243A Pipe Strap****243A***carbon steel*

Restrains pipe vertically while permitting limited movement horizontally

**ORDERING:** Specify figure number, name and pipe size



Note: Larger sizes available upon request

Size	Price Each	std pack	wgt. (approx.)
			lbs. each
½"	\$56.67	Bulk	2.00
¾"	\$58.08	Bulk	2.00
1"	\$59.81	Bulk	2.00
1¼"	\$90.13	Bulk	3.00
1½"	\$94.17	Bulk	3.00
2"	\$98.01	Bulk	3.00
2½"	\$155.00	Bulk	3.00
3"	\$163.85	Bulk	4.00
4"	\$179.42	Bulk	4.00
6"	\$243.78	Bulk	6.00

**244A Pipe Strap****244A***carbon steel*

Restrains pipe vertically and horizontally

**ORDERING:** Specify figure number, name and pipe size

Note: Larger sizes available upon request



Size	Price Each	std pack	wgt. (approx.)
			lbs. each
½"	\$52.76	Bulk	2.00
¾"	\$52.95	Bulk	2.00
1"	\$53.33	Bulk	2.00
1¼"	\$60.45	Bulk	3.00
2"	\$67.82	Bulk	3.00
2½"	\$134.87	Bulk	3.00
3"	\$147.88	Bulk	4.00
4"	\$153.40	Bulk	4.00
6"	\$218.53	Bulk	6.00

**246 Heavy Duty Alloy Steel Pipe Clamp****246***alloy steel w/s.s U-bolt*

For pipe where temperatures run to 1075°F and insulation up to 6 inches. Complies with Federal Specification WW-H-171E, Type 2 and A-A-1192A Type 2 and MSS SP-69 Type 2.

**ORDERING:** Specify nominal pipe size and exact O.D. of pipe, figure number, name. Special alloy filler plates for non-standard O.D. pipe—P.O.A.



Size	Price Each Plain	std pack	wgt. (approx.)
			lbs. each
10"	\$1,972.43	Bulk	42.00
12"	\$2,997.19	Bulk	58.00
14"	\$3,256.13	Bulk	63.00
16"	\$3,663.81	Bulk	69.00
18"	\$4,909.03	Bulk	94.00
20"	\$5,426.96	Bulk	104.00
24"	\$7,878.73	Bulk	167.00

**247 light duty spring hanger****247***carbon steel***ORDERING:** Specify size of hanger, figure number, name.

For pricing, refer to EH price sheet

For weight, refer to Anvil catalog.

**C-247 Light Duty Spring Hanger****C-247***corrosion resistant**galvanized: all parts galvanized except  
neoprene coated***ORDERING:** Specify size of hanger, figure number, name.

For pricing, refer to EH price sheet

For weight, refer to Anvil catalog.

**248 Eye Rod, Not Welded, Right Hand Thread****248***carbon steel*

length inches	rod size inches						std pack
	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
8	\$11.00	\$16.03	\$20.37	\$33.80	\$39.18	\$58.05	Bulk
10	\$12.56	\$17.19	\$22.57	\$36.93	\$42.71	\$62.50	Bulk
12	\$13.43	\$19.62	\$24.72	\$40.05	\$46.12	\$67.13	Bulk
14	\$14.00	\$23.62	\$26.80	\$43.23	\$49.60	\$71.65	Bulk
18	\$16.67	\$27.54	\$31.02	\$49.95	\$56.54	\$79.59	Bulk
24	\$22.29	\$33.80	\$37.33	\$59.79	\$67.07	\$93.64	Bulk
30	\$26.05	\$39.93	\$43.58	\$69.63	\$77.62	\$106.55	Bulk
36	\$29.40	\$46.01	\$49.83	\$79.46	\$87.80	\$120.56	Bulk
42	\$33.28	\$51.98	\$56.20	\$88.50	\$98.33	\$133.46	Bulk
48	\$36.98	\$58.45	\$63.32	\$98.33	\$108.87	\$147.47	Bulk
54	\$40.74	\$64.42	\$68.41	\$108.14	\$118.24	\$158.00	Bulk
60	\$44.51	\$70.43	\$74.72	\$118.01	\$128.78	\$174.38	Bulk
66	\$48.04	\$76.52	\$81.03	\$127.85	\$139.30	\$189.61	Bulk
72	\$51.92	\$83.00	\$87.11	\$137.63	\$149.84	\$201.29	Bulk
<b>Add to above prices for 72 inch lengths for each additional foot of rod or fraction thereof</b>							
	\$7.06	\$12.03	\$14.59	\$21.07	\$23.27	\$29.00	

**248L Eye Rod, Not Welded, Left Hand Thread****248L***carbon steel*

Add 25% to prices for fig. 248 rods (with right hand threads) of applicable length and size.

Add 25% to prices for Fig 248 rods (with right hand threads) of applicable length and size.

**248X Linked Eye Rod, Not Welded****248X***carbon steel*

Prices shown, covering labor only for linking a pair of eyes, are to be added to prices for two fig. 248 eye rods of desired lengths.

Prices below, covering labor only for linking a pair of eyes to be added to prices for two Fig. 248 eye rods of desired lengths.

rod size inches						std pack
3/8"	1/2"	5/8"	3/4"	7/8"	1"	
\$36.11	\$41.15	\$51.16	\$71.19	\$92.20	\$115.63	Bulk

**253 Hanger Rod, Machine Threaded Both Ends, Right and Left Threads****253***carbon steel*

Add 25% to prices for Fig 140 of applicable length and size.



Add 25% to prices for fig. 140 of applicable length and size.

**255 Pipe Alignment Guide****255***carbon steel*

Used for maintaining alignment of piping through its axial expansion and contraction cycles. Guide size number is based on pipe size and insulation thickness.

**ORDERING:** Specify guide size number, figure number, name, pipe size and insulation thickness.



Size	Price Each	std pack
A	\$204.11	Bulk
B	\$240.90	Bulk
C	\$267.58	Bulk
D	\$297.06	Bulk
E	\$520.74	Bulk
F	\$985.33	Bulk
G	\$1,282.33	Bulk
H	\$1,354.71	Bulk
J	\$1,730.74	Bulk

**256 Pipe Alignment Guide****256***carbon steel*

Used for maintaining alignment of piping through its axial expansion and contraction cycles. Guide size number is based on pipe size and insulation thickness.

**ORDERING:** Specify guide size number, figure number, name, pipe size and insulation thickness.



Size	Price Each	std pack
A	\$371.53	Bulk
B	\$529.16	Bulk
C	\$672.10	Bulk
D	\$916.30	Bulk
E	\$1,028.50	Bulk
F	\$1,198.71	Bulk
G	\$2,090.00	Bulk
H	\$2,802.64	Bulk
J	\$3,577.53	Bulk

**258 Pipe Saddle Support****258***cast iron pipe saddle on sizes 4" - 12"**carbon steel pipe saddle on sizes 14" - 36"*

Saddle base must be slipped into riser pipe. Complies with Federal Specifications WW-H-171E Type 36 and 37 and A-A-1192A Type 36. Complies with MSS SP-69 Type 36.

Steel stanchion saddles also available for sizes 4" through 12" as well as stanchions sizes for ductile iron pipe. Call for pricing and availability.

**ORDERING:** Specify pipe size, figure number, name and finish. If riser and flange are required they must be ordered separately.

Size	Price Each		std pack	wgt. (approx.)
	Plain	Galv.		lbs. each
4"	\$81.98	\$142.93	Bulk	9.10
5"	\$91.09	\$162.92	Bulk	10.80
6"	\$100.89	\$167.27	Bulk	11.80
8"	\$109.34	\$181.78	Bulk	14.30
10"	\$114.66	\$192.03	Bulk	19.30
12"	\$120.34	\$203.49	Bulk	23.10
14"	\$264.36	\$303.97	Bulk	15.00
16"	\$284.10	\$326.60	Bulk	16.00
18"	\$473.40	\$533.97	Bulk	23.00
20"	\$505.06	\$569.68	Bulk	24.00
22"	\$534.49	\$602.88	Bulk	26.00
24"	\$635.51	\$716.86	Bulk	30.00
26"	\$667.12	\$752.44	Bulk	32.00
30"	\$675.71	\$784.74	Bulk	41.00
32"	\$690.77	\$804.62	Bulk	42.00
36"	\$750.06	\$874.17	Bulk	46.00

**259 Pipe Stanchion Saddle****259**

cast iron stanchion saddle with steel yoke and nuts on sizes 4" - 12". carbon steel stanchion saddle with steel yoke and nuts on sizes 14" - 36".

Saddle base must be slipped into riser pipe; yoke is attached to saddle after pipe is in place. Complies with Federal Specification A-A-1192A Type 37. Complies with MSS SP-69 Type 37.

Steel stanchion saddles also available for sizes 4" through 12" as well as stanchions sizes for ductile iron pipe. Call for pricing and availability.

**ORDERING:** Specify pipe size, figure number, name and finish. If riser and flange are required, they must be ordered separately.



Size	Price Each		std pack	wgt. (approx.) lbs. each
	Plain	Galv.		
4"	\$126.29	\$154.65	Bulk	10.80
5"	\$131.26	\$168.94	Bulk	12.10
6"	\$136.30	\$175.89	Bulk	12.70
8"	\$174.33	\$240.71	Bulk	21.30
10"	\$236.48	\$316.62	Bulk	25.70
12"	\$289.55	\$386.79	Bulk	31.20
14"	\$528.85	\$608.01	Bulk	28.00
16"	\$579.04	\$665.77	Bulk	31.00
18"	\$708.14	\$814.74	Bulk	40.00
20"	\$761.79	\$876.47	Bulk	43.00
22"	\$818.97	\$942.31	Bulk	46.00
24"	\$931.67	\$1,071.92	Bulk	52.00
26"	\$987.18	\$1,135.83	Bulk	55.00
30"	\$1,143.78	\$1,330.90	Bulk	69.00
32"	\$1,197.24	\$1,394.62	Bulk	73.00
36"	\$1,310.00	\$1,526.73	Bulk	81.00

**260 Adjustable Clevis****260**

carbon steel

For suspension of stationary pipe lines. Hanger load nut above clevis must be tightened securely to assure proper hanger performance. If an oversize clevis is used, a spacer must be placed over the clevis bolt. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 1 and A-A-1192A Type 1. Complies with MSS SP-69 Type 1.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.



Size	plain	Price Each		Stainless Steel	std pack	wgt (approx.) lbs. each
		galv	primed			
½"	\$1.92	\$2.87	\$2.36	POA	100	0.30
¾"	\$1.92	\$2.99	\$2.42	POA	100	0.30
1"	\$2.02	\$3.32	\$2.59	POA	100	0.35
1¼"	\$2.31	\$3.61	\$2.87	POA	100	0.40
1½"	\$2.54	\$4.06	\$3.21	POA	100	0.45
2"	\$2.81	\$4.78	\$3.83	POA	100	0.50
2½"	\$4.56	\$8.61	\$6.30	POA	50	0.85
3"	\$5.75	\$10.25	\$7.54	POA	50	0.95
3½"	\$6.02	\$10.92	\$8.11	POA	25	1.10
4"	\$6.92	\$12.95	\$9.63	POA	25	1.35
5"	\$9.57	\$16.66	\$12.44	POA	Bulk	1.82
6"	\$11.03	\$21.39	\$15.54	POA	Bulk	2.74
8"	\$18.18	\$32.43	\$24.32	POA	Bulk	4.15
10"	\$32.49	\$58.05	\$43.69	POA	Bulk	7.25
12"	\$40.87	\$75.78	\$55.74	POA	Bulk	10.80
14"	\$61.17	\$104.24	\$83.23	POA	Bulk	12.40
16"	\$87.16	\$144.29	\$117.26	POA	Bulk	19.85
18"	\$108.23	\$182.37	\$143.30	POA	Bulk	22.25
20"	\$227.46	\$354.66	\$289.55	POA	Bulk	40.33
24"	\$401.78	\$544.04	\$471.87	POA	Bulk	49.83
30"	\$519.96	\$723.28	\$621.13	POA	Bulk	70.18



**261 Riser Clamp****261***carbon steel*

For support and steadying of steel pipe risers either insulated or bare, cast iron pipe or conduit. Clamp is fitted and bolted preferably below a coupling on steel pipe or a hub on cast iron soil pipe. Also for support of pipe covering or insulation. UL Listed. Complies with Federal Specification WW-H-171E Type 8 and A-A-1192A Type 8. Complies with MSS SP-69 Type 8.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.



Size	Price Each			std pack	wgt (approx.) lbs. each
	plain	galv	primed		
¾"	\$5.97	\$9.63	\$7.66	25	1.10
1"	\$6.02	\$9.68	\$7.71	25	1.10
1¼"	\$7.32	\$12.89	\$10.03	10	1.60
1½"	\$7.71	\$13.69	\$10.58	10	1.60
2"	\$8.11	\$14.13	\$10.98	10	1.70
2½"	\$8.56	\$14.81	\$11.55	10	1.90
3"	\$9.34	\$15.88	\$12.39	10	1.90
3½"	\$11.43	\$20.27	\$15.59	Bulk	2.30
4"	\$11.77	\$21.06	\$15.93	Bulk	2.40
5"	\$16.27	\$30.29	\$23.13	Bulk	3.60
6"	\$19.54	\$33.61	\$26.12	Bulk	4.00
8"	\$31.69	\$58.10	\$44.08	Bulk	7.60
10"	\$47.29	\$82.98	\$62.83	Bulk	11.10
12"	\$57.53	\$107.18	\$80.21	Bulk	16.50
14"	\$98.91	\$181.27	\$124.89	Bulk	17.70
16"	\$227.98	\$358.19	\$266.41	Bulk	30.40
18"	\$251.01	\$373.54	\$289.73	Bulk	33.80
20"	\$290.60	\$428.69	\$327.99	Bulk	35.00
24"	\$458.39	\$621.96	\$540.18	Bulk	82.00

**262 Strap, Short****262**

For attachment to sound timber with wood screws. Complies with Federal Specification WW-H-171E Type 26 and A-A-1192A Type 26. Complies with MSS SP-69 Type 26.

**ORDERING:** Specify pipe size, figure number, name, finish.



Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
½"	\$5.30	\$7.82	100	0.20
¾"	\$5.40	\$7.89	100	0.23
1"	\$5.52	\$8.05	100	0.26
1¼"	\$6.20	\$8.96	100	0.36
1½"	\$7.71	\$11.48	50	0.54
2"	\$7.99	\$13.12	50	0.60
2½"	\$13.91	\$23.75	25	1.40
3"	\$15.26	\$26.46	25	1.60
3½"	\$17.11	\$34.00	25	1.80
4"	\$19.14	\$34.00	25	1.90

**264 Adjustable Pipe Saddle Support****264**

*cast iron saddle support, special cast iron reducer and steel locknut nipple*

Provides approximately 4½" of vertical adjustment by turning locknut nipple. The lower end of the nipple is staked to prevent separation of nipple and coupling during adjustment. The fig. 264 should be attached to a standard pipe base with NPT threads at point of attachment (not included). Proper pipe base diameter is shown in table. Call for pricing and availability. Complies with Federal Specification WW-H-171E Type 39 and A-A-1192A Type 38. Complies with MSS SP-69 Type 38.

**ORDERING:** Specify pipe size, figure number, name and finish. If pipe base is required it must be ordered separately.



Size	Price Each		Price Each, Saddle Only		std pack	wgt. (approx.) complete	lbs. ea. saddle only	pipe base diameter
	plain	galv	plain	galv				
2½"	\$218.43	\$246.43	\$57.12	\$72.12	Bulk	9.00	4.90	2½"
3"	\$221.43	\$250.14	\$59.15	\$74.78	Bulk	9.20	5.00	2½"
3½"	\$222.42	\$251.77	\$60.14	\$76.40	Bulk	9.40	5.20	2½"
4"	\$288.49	\$335.34	\$97.23	\$120.97	Bulk	15.00	7.60	3
5"	\$292.57	\$344.60	\$102.21	\$131.15	Bulk	16.70	9.30	3
6"	\$297.54	\$352.70	\$106.26	\$138.33	Bulk	17.70	10.30	3
8"	\$315.60	\$378.51	\$125.25	\$165.18	Bulk	20.20	12.80	3
10"	\$348.65	\$427.24	\$157.31	\$212.87	Bulk	25.20	17.80	3
12"	\$361.67	\$452.01	\$170.34	\$237.64	Bulk	29.00	21.60	3
14"	\$436.80	\$590.11	\$224.44	\$342.86	Bulk	49.20	38.00	4
16"	\$493.92	\$659.68	\$286.55	\$417.41	Bulk	53.20	42.00	4
18"	\$666.22	\$886.84	\$346.68	\$505.60	Bulk	70.80	51.00	6
20"	\$902.64	\$1,229.29	\$605.10	\$870.00	Bulk	104.80	85.00	6
24"	\$1,154.05	\$1,559.20	\$852.52	\$1,195.45	Bulk	130.00	110.00	6
30"	\$1,444.54	\$1,973.59	\$1,166.75	\$1,634.38	Bulk	170.00	150.00	6
32"	\$1,756.15	\$2,319.69	\$1,356.99	\$1,858.03	Bulk	181.00	161.00	6
36"	\$1,832.25	\$2,607.91	\$1,577.32	\$2,290.96	Bulk	249.00	229.00	6



**265 Adjustable Pipe Saddle Support****265**

stanchion saddle with steel yoke and nuts, special cast iron reducer and steel locknut nipple (cast iron stanchion saddle on 4" to 12", carbon steel stanchion saddle on 14" to 36")

Provides approximately 4½" of vertical adjustment by turning locknut nipple. The lower end of the nipple is staked to prevent separation of nipple and coupling during adjustment.

The fig. 265 should be attached to a standard pipe based with NPT threads at point of attachment (not included). Proper pipe base diameter is shown in table.

Complies with Federal Specifications WW-H-171E Type 36 & 38 and A-A-1192A Type 36.

Complies with MSS SP-69 Type 36.

Steel stanchion saddles also available for sizes 4" through 12" as well as stanchions sized for ductile iron pipe. Call for pricing and availability

**ORDERING:** Specify pipe size, figure number, name and finish. If pipe base is required it must be ordered separately.



Size	Price Each		wgt (approx.) lbs. ea.	pipe base diameter
	plain	galv		
4"	\$293.98	\$349.88	22.0	4
5"	\$298.50	\$362.87	23.1	4
6"	\$303.08	\$369.19	23.9	4
8"	\$337.65	\$428.12	32.5	4
10"	\$394.15	\$497.13	36.9	4
12"	\$442.40	\$560.92	42.4	4
14"	\$708.01	\$817.31	39.2	4
16"	\$758.21	\$875.06	42.2	4
18"	\$1,052.63	\$1,213.08	60.0	6
20"	\$1,106.28	\$1,274.81	63.0	6
22"	\$1,163.46	\$1,340.64	66.0	6
24"	\$1,276.15	\$1,470.26	72.0	6
26"	\$1,331.67	\$1,534.17	75.0	6
30"	\$1,488.27	\$1,729.23	89.0	6
32"	\$1,541.73	\$1,792.95	93.0	6
36"	\$1,654.49	\$1,925.06	101.0	6

**B-268 Pre-Engineered Spring Hanger****B-268**

carbon steel

**C-268 Corrosion Resistant, Pre-Engineered Spring Hanger****C-268**

galvanized: all parts galvanized except  
neoprene coated

neoprene coated: all parts

See Anvil catalog for data.



For pricing, refer to EH price sheet  
For weights, refer to Anvil catalog

**271 Pipe Roll Stand Complete; Pipe Roll and Rod; Pipe Roll Only****271***cast iron roll and stand, carbon steel roll rod*

To support pipe lines where allowance for axial expansion and contraction is required but where vertical adjustment is not needed. If roll is to support covered pipe, refer to Anvil catalog for sizing. Complies with Federal Specification WW-H-171E Type 45 and A-A-1192A Type 44. Complies with MSS SP-69 Type 44.

**ORDERING:** Specify pipe roll size, figure number, name.

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
2-3½"	\$57.36	\$78.36	Bulk	6.40
4-6"	\$77.99	\$101.45	Bulk	8.90
8-10"	\$136.21	\$186.06	Bulk	15.30
12-14"	\$228.54	\$320.08	Bulk	28.10
16-20"	\$317.30	\$446.66	Bulk	39.70
22-24"	\$385.12	\$546.38	Bulk	49.50
26-30"	\$722.10	\$1,045.63	Bulk	99.30
36-42"	\$910.57	\$1,405.83	Bulk	152.00

**274 Adjustable Pipe Roll Stand with Base Plate****274***cast iron base plate, stand and roll, carbon steel roll rod and adjusting screws*

To support pipe lines where vertical and lateral adjustment is needed as well as allowance for axial expansion and contraction. If roll is to support covered pipe, refer to Anvil catalog for sizing. Complies with Federal Specification WW-H-171E Type 47 and A-A-1192A Type 46. Complies with MSS SP-69 Type 46.

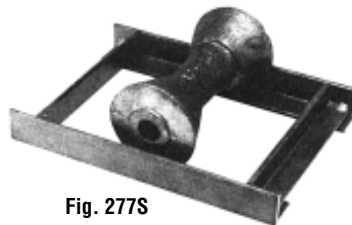
**base plate only (Fig. 274P)**  
**without base plate (Fig. 275)**

**ORDERING:** Specify pipe roll size, figure number, name.

To order Fig. 274 without base plate refer to Fig. 275

To order base plate only refer to Fig. 274P - call for pricing

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
2-3½"	\$177.77	\$227.63	Bulk	15.30
4-6"	\$205.24	\$268.04	Bulk	19.30
8-10"	\$300.54	\$405.10	Bulk	32.10
12-14"	\$509.90	\$676.72	Bulk	51.20
16-20"	\$785.69	\$1,017.97	Bulk	71.30
22-24"	\$898.23	\$1,181.71	Bulk	87.00
26-30"	\$1,635.51	\$2,176.97	Bulk	166.20
36-42"	\$2,033.35	\$3,023.66	Bulk	304.00

**277 Pipe Roll and Plate****277***cast iron roll and plate***Fig. 277****Fig. 277S**

For support of pipe where small horizontal movement due to expansion and contraction may occur and where vertical adjustment is unnecessary. A steel base plate is available for welding the base at the point of attachment. (Specify fig.277S). If used with Anvil pipe covering protection saddle, refer to Anvil catalog for size of pipe roll to be used. Complies with Federal Specification WW-H-171E Type 46 and A-A-1192A Type 45. Complies with MSS SP-69 Type 45.

**base plate only (Fig. 277P)**

**ORDERING:** Specify pipe roll size, figure number, name.

To order base plate only refer to Fig. 277P - call for pricing

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
2-3½"	\$34.91	\$47.61	Bulk	3.90
4-6"	\$42.78	\$60.98	Bulk	5.60
8-10"	\$110.37	\$160.23	Bulk	15.30
12-14"	\$222.90	\$313.85	Bulk	27.90
16-20"	\$267.93	\$410.39	Bulk	43.70
22-24"	\$359.11	\$526.87	Bulk	51.50

**278 Welded Eye Rod, Right Hand Thread****278***carbon steel*

length inches	rod size inches						std pack
	3/8"	1/2"	5/8"	3/4"	7/8"	1"	
8	\$26.97	\$40.98	\$60.89	\$77.26	\$93.64	\$119.39	Bulk
10	\$28.13	\$42.13	\$63.21	\$80.80	\$98.33	\$124.09	Bulk
12	\$29.28	\$43.35	\$65.57	\$83.12	\$101.86	\$128.78	Bulk
14	\$29.28	\$44.51	\$66.74	\$86.64	\$105.34	\$133.46	Bulk
18	\$31.60	\$46.83	\$70.26	\$92.49	\$112.40	\$142.78	Bulk
24	\$33.97	\$51.51	\$76.11	\$100.65	\$124.09	\$156.85	Bulk
30	\$35.13	\$55.04	\$81.95	\$108.87	\$134.62	\$170.91	Bulk
36	\$38.67	\$59.73	\$86.64	\$118.24	\$146.31	\$186.08	Bulk
42	\$40.98	\$63.21	\$92.49	\$127.56	\$156.85	\$200.13	Bulk
48	\$43.35	\$66.74	\$98.33	\$135.77	\$167.38	\$214.20	Bulk
54	\$45.66	\$71.42	\$104.18	\$144.00	\$179.07	\$228.21	Bulk
60	\$48.04	\$74.95	\$108.87	\$153.32	\$189.61	\$242.28	Bulk
66	\$50.36	\$79.59	\$114.71	\$161.54	\$201.29	\$256.33	Bulk
72	\$52.67	\$83.12	\$120.56	\$170.91	\$211.83	\$271.56	Bulk
For each additional foot of rod, or fraction thereof, add the following to the price for 72 inch length							
	\$4.69	\$7.99	\$12.85	\$18.63	\$24.72	\$30.68	

**278L Welded Eye Rod, Left Hand Thread****278L***carbon steel*

Add 25% to prices for Fig. 278 rods (with right hand threads) of applicable length and size.

**278X Linked Eye Rod, Welded****278X***carbon steel*

Prices below, covering labor only for linking a pair of eyes, are to be added to prices for two fig. 278 eye rods of desired lengths.

rod size inches						std pack
3/8"	1/2"	5/8"	3/4"	7/8"	1"	
\$32.12	\$36.11	\$45.09	\$62.16	\$75.19	\$100.19	Bulk

**281 Wedge Type Concrete Insert****281***carbon steel body and malleable nut*

Nut may be preassembled on rod before inserting in insert. Nut rests against the sloping sides of the insert, providing greater support than if required to set on the lower edge of the insert body. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 19 and A-A-1192A Type 18. Complies with MSS SP-69 Type 18.

**ORDERING:** Specify figure number, name, size of nut tapping if nut is required, finish if other than plain.

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
<b>insert only</b>				
—	\$4.84	\$7.99	Bulk	0.69
<b>nut only</b>				
3/8"	\$1.47	\$1.92	25	0.13
1/2"	\$1.69	\$2.31	25	0.17
5/8"	\$2.02	\$2.76	25	0.20
3/4"	\$2.42	\$3.26	25	0.17
7/8"	\$3.66	\$5.01	25	0.24
<b>complete</b>				
3/8"	\$6.30	\$9.91	-	0.82
1/2"	\$6.53	\$10.30	-	0.86
5/8"	\$6.86	\$10.75	-	0.89
3/4"	\$7.25	\$11.26	-	0.86
7/8"	\$8.50	\$13.00	-	0.93

**282 CB-Universal Concrete Insert****282***malleable iron body and nut*

Upper attachment for supporting pipe from a ceiling. Special removable nut can be tapped for  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ ", or  $\frac{7}{8}$ " inch hanger rod. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 18 and A-A-1192A Type 18. Complies with MSS SP-69 Type 18.



Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
complete	\$11.72	\$16.16	Bulk	1.50
without nut	\$8.78	\$13.17	Bulk	1.30
nut only	\$2.93	\$2.99	25	0.20

**ORDERING:** Specify figure number, name, size of nut tapping if nut is required, finish if other than plain.

**283 Heavy Duty Concrete Insert****283***stainless steel body and bars with polypropylene disc.*

Upper attachment for supporting pipe from a concrete ceiling. Tapped for sizes  $\frac{3}{4}$ " through  $1\frac{1}{2}$ ".

Complies with Federal Specification WW-H-171E Type 18 and A-A-1192A Type 18. Complies with MSS SP-69 Type 18.



Size	Price Each
$\frac{3}{4}$ - $1\frac{1}{2}$	\$411.53

**ORDERING:** Specify figure number, rod size.

Patent# 4,945,704

**284 Metal Deck Hanger****284***carbon steel*

Upper attachment for suspending pipe or conduit in metal concrete deck forms for rod sizes  $\frac{3}{8}$ " to 1". May be used with a rod coupling such as the fig. 135 or 136 to allow for extended rod lengths.

**Call for pricing and availability**

**ORDERING:** Specify rod size, figure number, name, finish, "Height" and "length" of bracket. Call for pricing and availability.

**285 Light Weight Concrete Insert****285***carbon steel body and nut*

Upper attachment for supporting pipe or conduit from a concrete ceiling. Nut can be furnished tapped for  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ", or  $\frac{5}{8}$ " hanger rod. UL Listed and FM Approved. Complies with Federal Specification WW-H-171E Type 18 and A-A-1192A Type 18. Complies with MSS SP-69 Type 19.



Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
complete	\$4.22	\$7.66	Bulk	0.48
without nut	\$3.26	\$5.97	Bulk	0.41
nut only	\$0.95	\$1.69	25	0.07

**ORDERING:** Specify figure number, name, size of nut tapping if nut is required.

**290 Weldless Eye Nut, Right Hand Thread**

**290**

**290L Weldless Eye Nut, Left Hand Thread**

**290**

*forged steel*

For use on high temperatures piping. Complies with Federal Specification WW-H-171E Types 17 and A-A-1192A Type 17. Complies with MSS SP-69 Type 17.

**ORDERING:** Specify rod size, figure number, name.



Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
3/8"	\$22.58	\$24.49	Bulk	0.63
1/2"	\$22.58	\$24.49	Bulk	0.63
5/8"	\$22.58	\$24.49	Bulk	0.62
3/4"	\$22.58	\$24.49	Bulk	0.60
7/8"	\$45.55	\$50.71	Bulk	1.70
1"	\$45.55	\$50.71	Bulk	1.70
1 1/4"	\$129.71	\$140.62	Bulk	3.60
1 1/2"	\$129.71	\$140.62	Bulk	3.50
1 3/4"	\$421.28	\$451.85	Bulk	16.40
2"	\$448.07	POA	Bulk	15.90
2 1/4"	\$454.49	POA	Bulk	15.40
2 1/2"	\$454.49	POA	Bulk	14.90

**291 Clevis Pin with Cotters**

**291**

*carbon steel*



For use with type C variable spring hanger, type C constant support, and fig. 66 welded beam attachment.

**ORDERING:** Specify pin diameter, figure number, name.

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
1/2"	\$6.89		Bulk	0.12
5/8"	\$7.24		Bulk	0.18
3/4"	\$8.57		Bulk	0.29
7/8"	\$12.27		Bulk	0.47
1"	\$15.86		Bulk	0.67
1 1/8"	\$37.04		Bulk	0.00
1 3/8"	\$49.42		Bulk	2.10
1 5/8"	\$82.36		Bulk	3.30
1 7/8"	\$98.86		Bulk	4.80
2 1/4"	\$131.78		Bulk	7.20
2 1/2"	\$163.33		Bulk	9.30
2 3/4"	\$229.20		Bulk	12.50
3"	\$344.48		Bulk	16.60
3 1/4"	\$377.41		Bulk	20.00
3 1/2"	\$426.84		Bulk	23.90
3 3/4"	\$575.06		Bulk	25.10
4"	\$639.54		Bulk	34.80

**292 UFS Beam Clamp with Weldless Eye Nut, Right Hand Thread**

**292**

**292L UFS Beam Clamp with Weldless Eye Nut, Left Hand Thread**

**292L**

*forged steel*



For suspension of heavy loads from American Standard I-beams and wide flange beams with flange width to 15 inches and flange thickness to 1.031. Complies with Federal Specification WW-H-171E Types 28 & 29 and A-A-1192A Type 28 & Type 29. Complies with MSS SP-69 Type 28 without links and MMS SP-69 Type 29 with links.

**ORDERING:** Specify clamp size, figure number, name, rod tapping.

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain	galv		
No. 1	\$180.35	\$192.50	Bulk	3.90
2	\$258.53	\$279.79	Bulk	9.20
3	\$406.76	\$447.27	Bulk	13.00
4	\$486.92	\$554.54	Bulk	21.70
5	\$628.13	\$733.78	Bulk	33.90
6	\$694.29	\$768.77	Bulk	23.90
7	\$779.43	\$890.99	Bulk	35.80
8	\$832.49	\$947.19	Bulk	36.80

## 295 Double Bolt Pipe Clamp

295

carbon steel



For suspension of pipe requiring up to 4 inches of insulation and where flexibility at the clamp is desired. Complies with Federal Specification WW-H-171E Type 3 and A-A-1192A Type 3. Complies with MSS SP-69 Type 3.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.

Size	Price Each plain	galv	std pack	wgt (approx.) lbs. each
¾"	\$23.59	\$31.19	Bulk	0.70
1"	\$23.59	\$31.19	Bulk	0.76
1¼"	\$23.59	\$31.19	Bulk	0.81
1½"	\$23.59	\$31.19	Bulk	2.30
2"	\$24.10	\$32.76	Bulk	2.60
2½"	\$25.05	\$35.02	Bulk	2.70
3"	\$26.86	\$37.89	Bulk	3.00
4"	\$48.98	\$76.51	Bulk	6.70
5"	\$53.37	\$83.82	Bulk	7.00
6"	\$82.53	\$136.02	Bulk	11.50
8"	\$93.18	\$151.38	Bulk	13.20
10"	\$126.22	\$208.59	Bulk	19.80
12"	\$146.38	\$234.31	Bulk	22.30
14"	\$306.49	\$471.72	Bulk	37.70
16"	\$349.33	\$517.43	Bulk	41.40
18"	\$372.02	\$570.64	Bulk	44.90
20"	\$501.96	\$722.47	Bulk	57.30
24"	\$734.01	\$1,080.98	Bulk	65.90
28"	\$1,257.13	\$1,801.09	Bulk	112.30
30"	\$2,002.13	\$2,375.72	Bulk	150.00
32"	\$2,611.55	\$2,936.34	Bulk	193.30
34"	\$2,711.32	\$3,910.18	Bulk	248.80
36"	\$3,040.94	\$4,301.06	Bulk	257.50

## 295A Alloy Double Bolt Pipe Clamp

295A

alloy steel (ASTM A-387-GRADE 22)



For suspension of alloy pipe having up to 4 inches of insulation and where flexibility at the clamp is desirable. Complies with Federal Specification WW-H-171E Type 3 and A-A-1192A Type 3. Complies with MSS SP-69 Type 3.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each plain	std pack	wgt (approx.) lbs. each
1½"	\$190.23	Bulk	2.30
2"	\$194.29	Bulk	2.60
2½"	\$210.51	Bulk	2.70
3"	\$226.84	Bulk	3.00
4"	\$293.34	Bulk	6.70
5"	\$371.39	Bulk	7.00
6"	\$403.10	Bulk	11.50
8"	\$484.91	Bulk	13.20
10"	\$622.31	Bulk	19.80
12"	\$1,225.34	Bulk	22.30
14"	\$2,131.18	Bulk	37.70
16"	\$2,488.36	Bulk	41.40
18"	\$2,534.40	Bulk	44.90
20"	\$3,502.10	Bulk	57.30
24"	\$3,548.27	Bulk	65.90

## 295H Heavy Duty Double Bolt Pipe Clamp

295H

carbon steel



For suspending insulated piping where loads exceed those recommended for the standard fig. 295. Complies with Federal Specification WW-H-171E Type 3 and A-A-1192A Type 3. Complies with MSS SP-69 Type 3.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each plain	std pack	wgt (approx.) lbs. each
6"	\$146.60	Bulk	12.00
8"	\$165.85	Bulk	18.50
10"	\$269.11	Bulk	30.30
12"	\$473.07	Bulk	42.00
14"	\$633.13	Bulk	60.00
16"	\$898.23	Bulk	80.00
18"	\$1,344.17	Bulk	115.00
20"	\$1,567.79	Bulk	140.00
24"	\$1,673.34	Bulk	190.00
28"	\$4,202.81	Bulk	354.00
30"	\$4,593.69	Bulk	406.00
32"	\$5,871.26	Bulk	555.00
34"	\$6,252.57	Bulk	604.00
36"	\$7,658.33	Bulk	678.00

**296 Anvil Vibration Control and Sway Brace****296***carbon steel***C-296 Corrosion Resistant****C-296****297 Assembly-Short****297****C-297 Corrosion Resistant****C-297****298 Assembly-Long****298****C-298 Corrosion Resistant****C-298**

See Anvil catalog for data

For pricing, refer to the EH price sheet.  
For weights, refer to Anvil catalog.**299 Forged Steel Clevis****299***forged steel*

For use on high temperature piping installations where a single lug is available at the structural steel or from the pipe.

Complies with Federal Specification WW-H-171E Type 14 and A-A-1192A Type 14. Complies with MSS SP-69 Type 14.

**ORDERING:** Specify rod size, figure number, name. Specify "with pin" if required.

Size	without pin & cotters plain	without pin & cotters galv	with pin & cotters plain	with pin & cotters galv	std pack	Wgt (approx.)	
						without pin & cotters	with pin & cotters
3/8"	\$52.63	\$57.82	\$59.50	\$65.59	Bulk	1.70	1.80
1/2"	\$52.63	\$57.82	\$59.50	\$65.59	Bulk	1.70	1.90
5/8"	\$52.63	\$57.82	\$59.50	\$65.59	Bulk	1.70	2.00
3/4"	\$85.80	\$93.40	\$95.54	\$105.90	Bulk	2.50	3.00
7/8"	\$85.80	\$93.40	\$95.54	\$105.90	Bulk	2.50	3.40
1"	\$145.25	\$157.35	\$169.57	\$184.99	Bulk	4.00	5.10
1 1/4"	\$160.79	\$172.32	\$187.58	\$204.31	Bulk	3.80	5.50
1 1/2"	\$273.33	\$291.56	\$359.07	\$384.86	Bulk	6.00	8.50
1 3/4"	\$310.88	-	\$487.70	-	Bulk	8.00	12.90
2"	POA	-	\$737.84	-	Bulk	16.00	23.30
2 1/4"	POA	-	\$1,161.88	-	Bulk	26.00	35.10
2 1/2"	POA	-	\$1,197.63	-	Bulk	25.50	36.50
2 3/4"	POA	-	POA	-	Bulk	36.00	50.00
3"	POA	-	POA	-	Bulk	35.00	51.50
3 1/4"	POA	-	POA	-	Bulk	90.00	115.90
3 1/2"	POA	-	POA	-	Bulk	88.00	117.70
3 3/4"	POA	-	POA	-	Bulk	86.00	119.80
4"	POA	-	POA	-	Bulk	84.00	122.20

**300 Adjustable Clevis for Insulated Lines****300***carbon steel*

For suspending insulated piping. The extended tangents on the lower strap provide for from 2" to 5 1/2" insulation, dependent on pipe size, with the clevis bolt outside the insulation. Complies with Federal Specification WW-H-171E Type 1 and A-A-1192A Type 1. Complies with MSS SP-69 Type 1.

**ORDERING:** Specify pipe size, figure number, name.

Size	Price Each		std pack	wgt (approx.)
	plain	galv		lbs. each
3/4"	\$11.06	\$12.44	Bulk	0.51
1"	\$11.17	\$12.97	Bulk	0.58
1 1/4"	\$11.17	\$13.20	Bulk	0.64
1 1/2"	\$12.56	\$14.82	Bulk	0.72
2"	\$14.87	\$17.53	Bulk	1.90
2 1/2"	\$17.25	\$23.16	Bulk	0.85
3"	\$18.81	\$25.06	Bulk	2.00
4"	\$24.77	\$32.58	Bulk	2.50
5"	\$31.48	\$40.80	Bulk	3.00
6"	\$40.69	\$51.28	Bulk	3.40
8"	\$67.13	\$88.03	Bulk	6.70
10"	\$99.20	\$133.46	Bulk	11.00
12"	\$111.24	\$154.24	Bulk	13.80



**301 Anvil Vibration Control and Sway Brace****301***carbon steel***C-301 Corrosion Resistant****C-301****302 Assembly-Short****302****C-302 Corrosion Resistant****C-302****303 Assembly-Long****303****C-303 Corrosion Resistant****C-303**

See Anvil catalog for data

For pricing, refer to the EH price sheet.  
For weights, refer to Anvil catalog.

**312 Tapered Load Pin****312**

See Anvil catalog for data

Size  $\frac{3}{8}$ "-2"

For pricing, refer to the EH price sheet.  
For weights, refer to Anvil catalog.

**395 Ceiling Plate****395***cast iron*

For giving a finished appearance where pipe enters ceiling.

**ORDERING:** Specify pipe size, figure number, name, finish if other than plain.

Size	Price Each		std pack	wgt (approx.) lbs. each	
	plain	galv		plain	galv
1/2"	\$5.09	\$6.66	Bulk	0.21	0.22
3/4"	\$7.81	\$10.93	Bulk	0.40	0.41
1"	\$8.86	\$11.75	Bulk	0.41	0.42
1 1/4"	\$9.14	\$12.27	Bulk	0.51	0.52
1 1/2"	\$10.08	\$13.26	Bulk	0.55	0.56
2"	\$12.90	\$17.89	Bulk	0.67	0.69
2 1/2"	\$15.33	\$20.89	Bulk	0.93	0.95
3"	\$17.07	\$23.67	Bulk	1.10	1.30
3 1/2"	\$18.63	\$26.16	Bulk	1.20	1.30
4"	\$23.16	\$31.71	Bulk	1.40	1.40
5"	\$35.71	\$49.83	Bulk	2.50	2.50
6"	\$47.29	\$65.87	Bulk	3.10	3.10
8"	\$59.27	\$79.70	Bulk	3.30	3.30



**257, 257A (See Illustrations on Following Page)**  
**436, 436A (See Illustrations on Following Page)**

**257, 257A**  
**436, 436A**

*Carbon steel tee, PTFE bonded slide plates and carbon steel base*

**SIZE RANGE:** All sizes within maximum load rating

**FINISH:** Plain, painted or galvanized.

**SERVICE:** For the support of piping where horizontal movement resulting from expansion and contraction takes place and where a low coefficient of friction is desired.

Fig. 436 and 436A only, complies with A-A-1192A Type 35.  
 Complies with MSS SP-69 Type 35.

**MAXIMUM LOAD RATING:** 8000 lbs. at 70°F.  
 See PH-99 for rating factor at higher temperatures.

**MAXIMUM OPERATING TEMPERATURE:** 750°F

**TEMPERATURE RANGE AT PTFE:** -200°F TO 400°F

**FEATURES:**

- no lubrication required
- designed to minimize heat loss
- allows up to 3" of insulation
- allows up to 10" travel standard
- weld in place design

**AVAILABLE OPTIONS:**

- increased travels
- increased heights
- end plates
- clamps, fig. 212 or fig. 432
- base plate with mounting holes

**ORDERING:** Specify figure number, type, name and any other option desired.

**Price adder for end plates for fig. 257/436 slide and 257A/436A anchor. Price includes plates and welding. If pipe clamps are required, see price adder page 44.**

Type	Plain Price Each Fig 257 Fig 436	wgt (approx.) lbs. each	Price Each Fig 257A Fig 436A	wgt (approx.) lbs. each
1	\$318.03	13.19	\$73.82	7.00
2	\$344.48	18.02	\$73.82	7.00
3	\$407.83	19.11	\$73.82	7.00
4	\$318.11	18.10	\$73.82	7.00
5	\$349.44	19.18	\$73.82	7.00
6	\$445.82	21.21	\$73.82	7.00

Type	Galvanized Price Each Fig 257 Fig 436	wgt (approx.) lbs. each	Price Each Fig 257A Fig 436A	wgt (approx.) lbs. each
1	\$355.91	13.19	\$93.62	7.00
2	\$396.09	18.02	\$93.62	7.00
3	\$462.61	19.11	\$93.62	7.00
4	\$377.30	18.10	\$93.62	7.00
5	\$404.36	19.18	\$93.62	7.00
6	\$506.63	21.21	\$93.62	7.00

price adder for end plates			
size	plain	galv.	wgt.
2"	\$81.20	\$83.41	0.72
2½"	\$81.20	\$83.41	0.71
3"	\$83.23	\$86.25	0.96
3½"	\$86.24	\$89.65	1.10
4"	\$87.16	\$90.54	1.10
5"	\$96.25	\$100.91	1.50
6"	\$99.20	\$104.12	1.60
8"	\$103.26	\$108.82	1.80
10"	\$117.26	\$123.77	2.10
12"	\$129.29	\$137.13	2.50
14"	\$137.28	\$145.38	2.60
16"	\$150.30	\$159.29	2.90
18"	\$182.37	\$194.24	3.80
20"	\$193.42	\$205.52	3.90
24"	\$208.42	\$222.45	4.50

**Fig 439-plain**

## 257 Slide Configuration

257

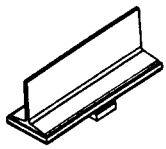


FIGURE 257  
TYPE 1

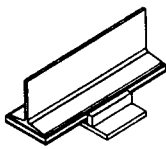


FIGURE 257  
TYPE 2

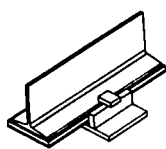


FIGURE 257  
TYPE 3

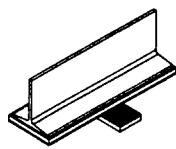


FIGURE 257  
TYPE 4

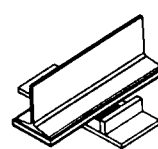


FIGURE 257  
TYPE 5

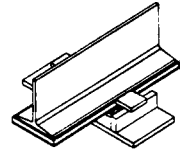


FIGURE 257  
TYPE 6

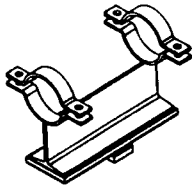


FIGURE 257 TYPES 1-6  
WITH 212 CLAMPS

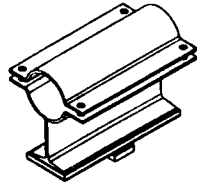


FIGURE 257 TYPES 1-6  
WITH 432 CLAMPS

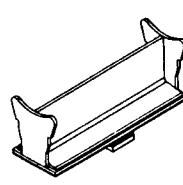


FIGURE 257 TYPES 1-6  
WITH ENDPLATES

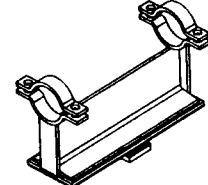


FIGURE 257 TYPES 1-6  
WITH 212 CLAMP AND  
ENDPLATES

## 436 Slide Configuration

436

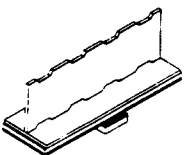


FIGURE 436  
TYPE 1

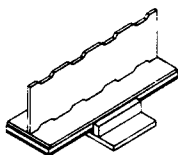


FIGURE 436  
TYPE 2

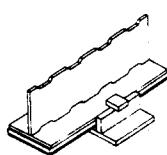


FIGURE 436  
TYPE 3

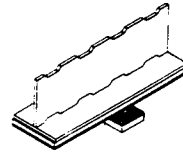


FIGURE 436  
TYPE 4

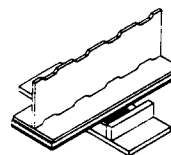


FIGURE 436  
TYPE 5

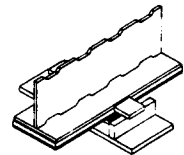


FIGURE 436  
TYPE 6

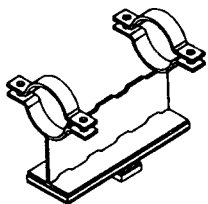


FIGURE 436 TYPES 1-6  
WITH 212 CLAMPS

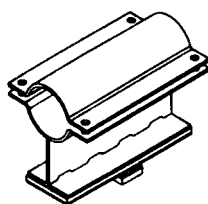


FIGURE 436 TYPES 1-6  
WITH 432 CLAMPS

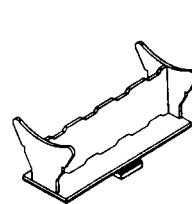


FIGURE 436 TYPES 1-6  
WITH ENDPLATES

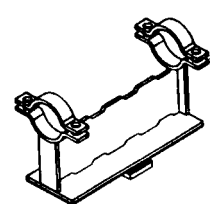


FIGURE 436 TYPES 1-6  
WITH 212 CLAMP AND  
ENDPLATES

## 257A Anchor Configuration

257A



FIGURE 257A

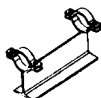


FIGURE 257A  
WITH 212 CLAMPS

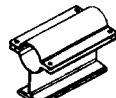


FIGURE 257A  
WITH 432 CLAMP



FIGURE 257A  
WITH ENDPLATES

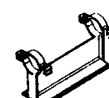


FIGURE 257A WITH  
ENDPLATES AND 212  
CLAMPS

## 436A Anchor Configuration

436A



FIGURE 436A

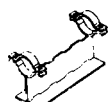


FIGURE 436A  
WITH 212 CLAMPS

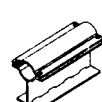


FIGURE 436A  
WITH 432 CLAMP



FIGURE 436A  
WITH ENDPLATES

**439**  
**439A**

**439**  
**439A**

*Carbon steel H section, PTFE bonded slide plates and carbon steel base*

**SIZE RANGE:** 6 through 36 inch pipe

**FINISH:** Plain, painted and galvanized.

**SERVICE:** A heavy duty slide support where horizontal movement resulting in expansion and contraction takes place and where a low coefficient of friction is desired.

Complies with A-A-1192A Type 35.

Complies with MSS SP-58 and SP-69 Type 35.

**MAXIMUM LOAD RATING:** As indicated at 70°F. See ph-91 for rating factor at higher temperatures.

**MAXIMUM OPERATING TEMPERATURES:** 750°F

**TEMPERATURE RANGE AT PTFE:** -200°F to 400°F

**FEATURES:**

- no lubrication required
- designed to minimize heat loss
- allows up to 3" of insulation
- allows up to 12" travel standard
- weld in place design

**AVAILABLE OPTIONS:**

- increased travels
- increased heights
- clamps, fig. 212 or fig. 432
- base plate with mounting holes

**ORDERING:** Specify figure number, pipe size, type, name and any other option desired.

**Price each, by pipe size**

type	6-8"	10-12"	14-16"	18-20"	24"	30"	36"
1	\$354.05	\$467.08	\$502.05	\$517.09	\$686.21	\$758.87	\$765.93
2	\$404.34	\$476.20	\$528.13	\$561.17	\$620.14	\$814.23	\$853.93
3	\$410.11	\$491.16	\$544.04	\$579.17	\$719.18	\$835.20	\$876.80
4	\$406.11	\$467.08	\$502.04	\$571.18	\$687.70	\$747.34	\$791.19
5	\$415.16	\$493.16	\$546.12	\$579.17	\$753.18	\$835.20	-

**Fig 439A -plain**

**Price each, by pipe size**

\$35.07	\$38.14	\$41.15	\$44.10	\$46.12	\$63.21	\$74.20
---------	---------	---------	---------	---------	---------	---------

**Fig 439-galvanized**

**Price each, by pipe size**

type	6-8"	10-12"	14-16"	18-20"	24"	30"	36"
1	\$413.86	\$544.83	\$590.43	\$619.52	\$815.10	\$908.57	\$941.02
2	\$485.39	\$584.49	\$650.83	\$702.31	\$791.29	\$1,061.10	-
3	\$503.65	\$590.40	\$674.64	\$728.13	\$904.83	\$1,098.32	-
4	\$468.15	\$546.05	\$591.99	\$674.93	\$817.83	\$909.96	-
5	\$507.75	\$606.45	\$674.77	\$725.32	\$968.80	\$1,090.22	-

**Fig 439A-galvanized**

**Price each, by pipe size**

\$75.54	\$78.65	\$81.62	\$90.82	\$96.02	\$131.70
---------	---------	---------	---------	---------	----------

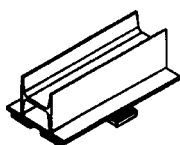


FIGURE 439  
TYPE 1

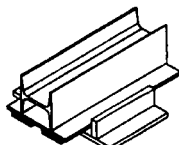


FIGURE 439  
TYPE 2

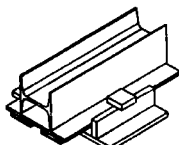


FIGURE 439  
TYPE 3

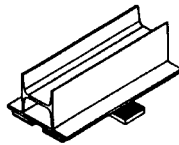


FIGURE 439  
TYPE 4

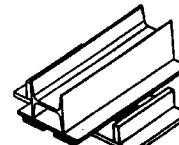


FIGURE 439  
TYPE 5

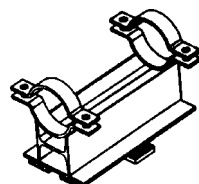


FIGURE 439 TYPES 1-5  
WITH 212 CLAMPS

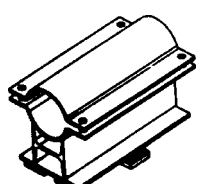


FIGURE 439 TYPES 1-5  
WITH 432 CLAMP



FIGURE 439A

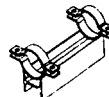


FIGURE 439A  
WITH 212 CLAMPS

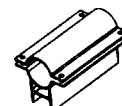


FIGURE 439A  
WITH 432 CLAMP

**432 Special Pipe Clamp for Slides/Anchors****432***Carbon steel**For figs. 257, 257A, 436, 436A, 439 and 439A***SIZE RANGE:** 2 through 24 inch pipe**FINISH:** Plain, painted and galvanized.

**SERVICE:** Used with and where pipe slides cannot be welded directly to pipe or copper tube. When used with fiberglass, plastic or aluminum pipe, a thin protective liner should be inserted between the pipe and the clamp. Price includes welding to slide or anchor. Non-standard sizes as well as rubber lined clamps available. Call for price and availability.

**ORDERING:** Specify figure number, pipe size, finish.

size	price each		wgt (approx.) lbs. each
	plain	galv.	
2"	\$119.55	\$124.94	2.0
2½"	\$119.55	\$127.63	3.0
3"	\$119.55	\$127.63	3.0
3½"	\$119.55	\$130.32	4.0
4"	\$119.55	\$130.32	4.0
5"	\$126.92	\$140.38	5.0
6"	\$141.67	\$173.97	12.0
8"	\$268.59	\$308.97	15.0
10"	\$290.71	\$339.17	18.0
12"	\$305.45	\$361.99	21.0
14"	\$312.82	\$423.21	41.0
16"	\$320.19	\$444.04	46.0
18"	\$334.94	\$474.94	52.0
20"	\$349.68	\$503.14	57.0
24"	\$379.17	\$559.55	67.0

**212 Adder for Pipe Clamps****212***For figs. 257, 257A, 436, 436A, 439 and 439A*

Price includes 2 clamps and welding. For painted finish and galvanized finish, see pricing page 2.

Size	Price Each		std pack	wgt (approx.) lbs. each
	plain			
2"	\$34.11		Bulk	1.10
2½"	\$35.13		Bulk	1.20
3"	\$36.09		Bulk	1.40
3½"	\$51.68		Bulk	1.50
4"	\$48.75		Bulk	2.30
5"	\$72.17		Bulk	2.60
6"	\$77.02		Bulk	5.40
8"	\$86.76		Bulk	6.50
10"	\$154.99		Bulk	13.60
12"	\$171.54		Bulk	15.20
14"	\$265.10		Bulk	20.50
16"	\$281.66		Bulk	22.30
18"	\$388.85		Bulk	31.60
20"	\$416.10		Bulk	35.80
24"	\$689.94		Bulk	53.10
30"	\$1,152.82		Bulk	113.90

**590 Adjustable Clevis for Ductile Iron Pipe****590***carbon steel*

For suspension of stationary AWWA ductile iron pipe lines. Hanger load nut above clevis must be tightened securely to assure proper hanger performance. If an oversize clevis is used or if the top fits inside the bottom, a pipe spacer must be placed over the clevis bolt. Sizes 12" and above are furnished with a pipe spacer.

Complies with Federal Specifications WW-H-171E Type 1 and A-A-1192A Type 1. Complies with MSS SP-69 Type 1.

**Ordering:** Specify ductile iron pipe size, figure number, name, and finish.



Size	Price each		wgt. (approx) Lbs ea
	Plain	Galv	
4	\$21.89	\$25.67	1.64
6	\$30.80	\$39.10	4.26
8	\$41.56	\$54.95	6.70
10	\$59.64	\$81.94	9.73
12	\$86.19	\$115.60	13.64
14	\$128.77	\$163.58	16.04
16	\$171.51	\$222.74	24.52
18	\$209.78	\$268.84	27.45
20	\$320.56	\$419.08	46.24
24	\$452.74	\$613.04	57.10

<b>594</b>	<b>Socket Clamp Washer</b>	<b>594</b>
<b>595</b>	<b>Socket Clamp</b>	<b>595</b>

cast iron washers, carbon steel sockets



Clamps mechanical joint piping or mechanical joint or socket fittings together, thus stopping separation or distortion or pipe line under excessive water pressure.

Complies with the standard of the National Board of Fire Underwriters for Outside Protection and meets the National Fire Protection Association requirements. Complies with Federal Specification A-A-1192A Type 8. Complies with MSS SP-69 (Type 8).

**ORDERING:** Specify size, figure number, name. Socket clamp washers, fig. 594 (two per socket clamp) must be ordered separately.

Size	Fig. 594 plain	Fig. 595 plain	std pack	fig 594	fig. 595
4"	\$7.89	\$72.34	Bulk	1.10	12.80
6"	\$7.89	\$77.80	Bulk	1.10	14.60
8"	\$8.61	\$150.83	Bulk	1.10	23.60
10"	\$11.20	\$170.30	Bulk	1.70	29.30
12"	\$11.20	\$251.60	Bulk	1.70	40.30
14"	\$13.62	\$396.51	Bulk	2.70	53.90
16"	\$13.62	\$535.97	Bulk	2.70	76.50
18"	\$19.54	\$638.76	Bulk	4.30	94.30
20"	\$19.54	\$949.36	Bulk	4.30	109.80
24"	\$29.10	\$1,312.25	Bulk	5.80	148.60

<b>599</b>	<b>Socket Clamp Washer</b>	<b>599</b>
<b>600</b>	<b>Socket Clamp</b>	<b>600</b>

cast iron washers, carbon steel sockets



Clamps joints of socket fittings together to preclude distortion of pipe line under excessive water pressure. Fig. 600 Complies with Federal Specification A-A-1192A Type 8 and complies with MSS SP-69 Type 8.

**ORDERING:** Specify size, figure number, name. Socket clamp washers, fig. 599 (two per socket clamp) must be ordered separately.

Size	Fig. 599 plain	Fig. 600 plain	std pack	fig 599	fig. 600
4"	\$7.89	\$71.22	Bulk	1.20	11.00
6"	\$7.89	\$75.10	Bulk	1.20	12.70
8"	\$7.89	\$83.27	Bulk	1.20	14.50
10"	\$7.89	\$90.30	Bulk	1.20	16.30
12"	\$7.89	\$111.02	Bulk	1.20	18.30
14"	\$12.39	\$390.04	Bulk	2.70	48.70
16"	\$12.39	\$526.11	Bulk	2.70	69.20
18"	\$17.85	\$627.56	Bulk	4.50	82.00
20"	\$17.85	\$934.04	Bulk	4.50	97.50
24"	\$26.63	\$1,290.74	Bulk	6.80	132.00

<b>Hex Nuts</b>	<b>American Standard Hex Nuts</b>	<b>Hex Nuts</b>
-----------------	-----------------------------------	-----------------

American Standard finished hex nuts- 1/4 through 1 1/2 inch. American Standard Heavy hexagon flat nut 1 3/4 through 3 3/4 inch.

size	price each	weight lbs. each	size	price each	weight lbs. each
1/4"	POA	0.01	1 3/4"	POA	1.50
3/8"	POA	0.02	2"	POA	2.20
1/2"	POA	0.04	2 1/4"	POA	4.30
5/8"	POA	0.07	2 1/2"	POA	5.90
3/4"	POA	0.12	2 3/4"	POA	8.00
7/8"	POA	0.19	3"	POA	10.10
1"	POA	0.28	3 1/4"	POA	12.80
1 1/8"	POA	0.40	3 1/2"	POA	16.00
1 1/4"	POA	0.54	3 3/4"	POA	19.70
1 1/2"	POA	0.94			

**CT-65 Light Duty Adjustable Clevis****CT-65**

carbon steel, with copper finish or yellow dichromate finish

For suspension of non-insulated copper tubing. A locknut above the clevis yoke must be tightened securely after each adjustment to assure full rated load. Complies with Federal Specification WW-H-171E Type 12.

**ORDERING:** Specify nominal tubing size, figure number, name, finish.



Size	Price Each		std pack	wgt (approx.) lbs. each
	copper	yellow di.		
1/2"	\$2.71	\$2.71	25	0.11
3/4"	\$2.93	\$2.93	25	0.12
1"	\$2.93	\$2.93	25	0.26
1 1/4"	\$3.26	\$3.26	25	0.29
1 1/2"	\$3.38	\$3.38	25	0.33
2"	\$3.88	\$3.88	25	0.37
2 1/2"	\$7.89	\$7.89	10	0.76
2 1/2"	\$7.89	\$7.89	10	0.76
3"	\$8.34	\$8.34	10	0.94
3 1/2"	\$8.34	\$8.34	10	0.94
4"	\$9.23	\$9.23	10	1.00

**CT-69 Copper Tubing E-Z Grip Hanger****CT-69**

steel with copper finish  
or yellow dichromate finish

Light hanger with socket for adjustment after installation. Boss on socket keep from falling out of hanger before installation. Complies with Federal Specification WW-H-171E Type 10 and A-A-1192A Type 10. Complies with MSS SP-69 Type 10.

**ORDERING:** Specify tube size, figure number, name, finish.



Size	Price Each		std pack	wgt (approx.) lbs. each
	copper	yellow di.		
1/2"-3/4"	\$1.92	\$1.92	100	0.10
1"	\$1.92	\$1.92	100	0.11
1 1/4"	\$1.92	\$1.92	100	0.11
1 1/2"	\$2.02	\$2.02	100	0.12
2"	\$2.09	\$2.02	100	0.13
2 1/2"	\$5.75	\$5.75	50	0.39
3"	\$6.82	\$6.82	50	0.41
3 1/2"	\$7.66	\$7.66	50	0.41
4"	\$8.34	\$8.34	50	0.45

**CT-99 Adjustable Tubing Ring****CT-99**

carbon steel ring; malleable iron adjusting nut with copper finish (paint)

For suspension of copper tubing. Recommended where insulated copper tubing is used. Rod need be screwed only to the bottom of the opening in the nut so as to lock the steel the ring in place and assure the full load rating of the hanger. Complies with Federal Specification WW-H-171E Type 9 and A-A-1192A Type 9. Complies with MSS SP-69 Type 9.

**ORDERING:** Specify nominal tubing size, figure number, name.



Size	Price Each		std pack	wgt (approx.) lbs. each
	copper			
1/2"	\$5.57		50	0.14
3/4"	\$5.57		50	0.15
1"	\$5.57		35	0.15
1 1/4"	\$6.02		50	0.16
1 1/2"	\$7.20		50	0.17
2"	\$8.16		50	0.17
2 1/2"	\$12.95		15	0.33
3"	\$14.81		15	0.36
4"	\$19.65		15	0.41

**CT-99C Coated Adjustable Tubing Ring****CT-99C**

malleable iron nut, carbon steel band both with copper finish (paint); lower portion of band PVC coated.

For suspension of copper tubing where there is concern that the possible breakdown of the ring's copper finish may give way to galvanic action between the steel ring and copper tubing. Complies with Federal Specification WW-H-171E Type 9 and A-A-1192A Type 9. Complies with MSS SP-69 Type 9.

**ORDERING:** Specify nominal tubing size, figure number, name.



Size	coated Price Each		std pack	wgt (approx.) lbs. each
	copper			
1/2"	\$8.05		50	0.16
3/4"	\$8.56		50	0.17
1"	\$9.29		35	0.17
1 1/4"	\$10.19		50	0.18
1 1/2"	\$10.86		50	0.19
2"	\$11.93		50	0.19
2 1/2"	\$17.79		15	0.33
3"	\$19.14		15	0.36

**CT-109 Split Tubing Ring****CT-109***malleable iron with copper finish (paint)*

For suspension of copper tubing. Complies with Federal Specification WW-H-171E Type 2 and A-A-1192A Type 2. Complies with MSS SP-69 Type 2.

**ORDERING:** Specify nominal tubing size, figure number and name.



Size	Price Each copper	std pack	wgt (approx.) lbs. each
1/2"	\$9.23	75	0.07
3/4"	\$9.23	100	0.09
1"	\$9.23	75	0.12
1 1/4"	\$13.29	50	0.13
1 1/2"	\$13.29	50	0.18
2"	\$17.57	50	0.24
2 1/2"	\$39.46	65	0.35
3"	\$43.91	15	0.46

**CT-121 Copper Tubing Riser Clamp****CT-121***carbon steel with copper finish or yellow dichromate finish*

For support and steadying of copper tubing risers. Complies with Federal Specification WW-H-171E Type 8 and A-A-1192A Type 8. Complies with MSS SP-69 Type 8.

**ORDERING:** Specify nominal tubing size, figure number, name and finish.



Size	Price Each copper	Price Each yellow di.	std pack	wgt (approx.) lbs. each
1/2"	\$6.20	\$6.20	25	0.52
3/4"	\$6.53	\$6.53	25	0.56
1"	\$8.39	\$8.39	25	0.94
1 1/4"	\$8.67	\$8.67	25	0.98
1 1/2"	\$10.58	\$10.58	25	1.50
2"	\$11.15	\$11.15	25	1.50
2 1/2"	\$13.12	\$13.12	25	1.70
3"	\$15.20	\$15.20	25	1.80
3 1/2"	\$18.97	\$18.97	25	1.90
4"	\$20.38	\$20.38	25	2.60

**CT-128R Ceiling Flange, Rod Threaded****CT-128R***malleable iron with copper finish*

For support of tubing from wood beams or ceilings where intermediate member is rod.

**ORDERING:** Specify rod tapping size, figure number and name.



Size	Price Each copper	std pack	wgt (approx.) lbs. each
3/8"	\$4.60	25	0.16
1/2"	\$5.52	25	0.16

**CT-138R Imported - Rod Threaded Extension Split Tubing Clamp****CT-138R***malleable iron with copper finish (paint)*

Designed to provide a tight fit on copper tubing.

Complies with Federal Specification WW-H-171E Type 25 and A-A-1192A Type 12. Complies with MSS SP-69 Type 12.

**ORDERING:** Specify nominal tubing size, figure number and name.

Not Domestically Manufactured



Size	Price Each copper	std pack	wgt (approx.) lbs. each
1/2"	\$5.18	50	0.10
3/4"	\$5.52	50	0.12
1"	\$5.91	25	0.14
1 1/4"	\$6.20	25	0.18
1 1/2"	\$7.66	25	0.22
2"	\$7.66	25	0.36

**CT-255 Copper Tubing Alignment Guide****CT-255***carbon steel*

Used for maintaining alignment of copper tubing through its axial expansion and contraction cycles. Guide size letter is based on tube size and insulation thickness.

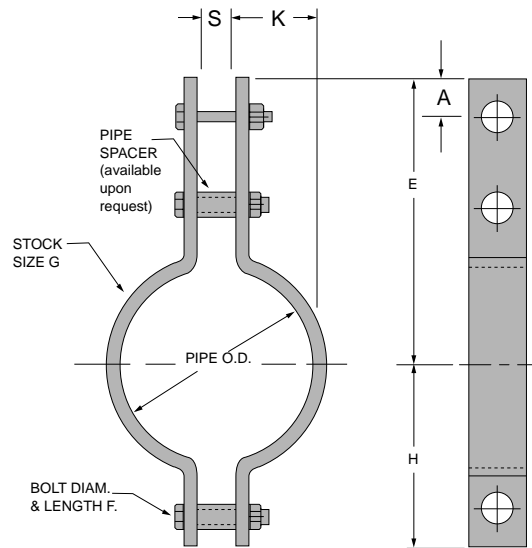
**ORDERING:** Specify guide size letter, figure number, name, tube size and insulation thickness.



Size	Price Each	std pack
A	\$230.77	bulk
B	\$256.41	bulk
C	\$282.05	bulk
D	\$314.10	bulk



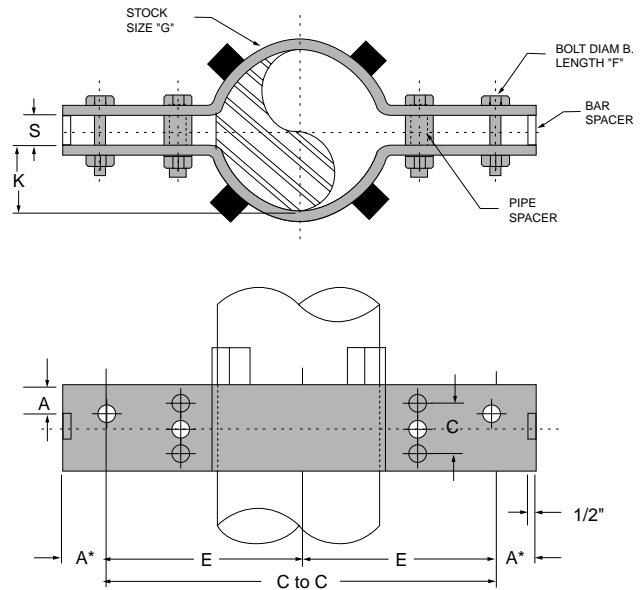
## Three Bolt Pipe Clamp



TO ORDER SPECIFY:

FIG. 41 DOUBLE BOLT PIPE CLAMP, SD  
PIPE SIZE  
MATERIAL SPECIFICATION  
LINE TEMPERATURE  
INSULATION THICKNESS  
LOAD.

## Riser Clamp

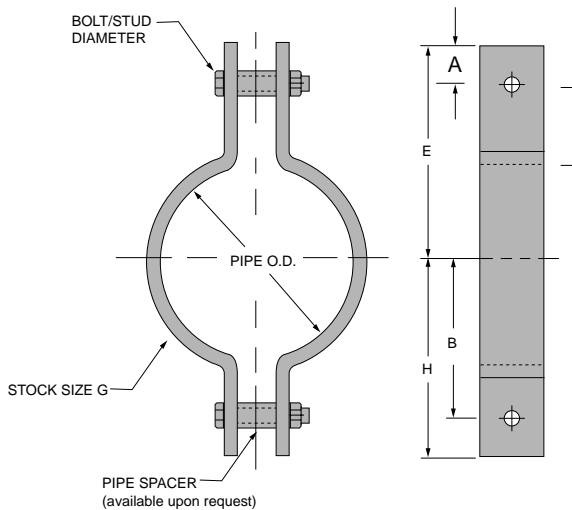


TO ORDER SPECIFY:

FIG. 40 RISER CLAMP, SD  
PIPE SIZE  
MATERIAL SPECIFICATION  
LINE TEMPERATURE  
INSULATION THICKNESS  
TOTAL LOAD.

NOTE: FOR USE WITH RIGID OR SPRING ASSEMBLY

## Non-Standard Two Bolt Pipe Clamp



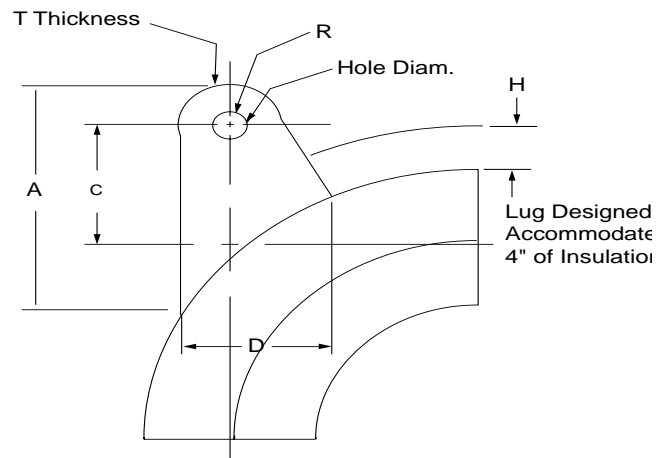
TO ORDER SPECIFY:

FIG. 42-S.D. Pipe Clamp, (Material Specification),  
Pipe Size, Load, Temperature.

\* The "B" dimension need not be specified. The manufacturing plant will drill the required hole as close to the curvature of the clamp as possible, allowing a minimum clearance for the nut. If a definite "B" dimension is required, it must be specified.

Alloy clamps, unless otherwise specified, will be furnished with alloy studs made from ASTM Spec. A-193-B7 stud stock with the center third unthreaded, and hex nuts.

## Welding Lug For L.R. Elbow



TO ORDER SPECIFY:

FIG.53 WELDING LUG, SD  
MATERIAL SPECIFICATION  
PIPE SIZE  
ROD SIZE  
LOAD TO BE SUPPORTED

## Pipe Hangers & Supports

- **Hardware Hangers Complete Product Line of:**
  - Carbon Steel, Stainless Steel
  - Cast Iron, Malleable Iron
  - Copper & PVC Coated
  - Galvanized & Painted
  - Electroplated, Galvanized and Painted
- **Engineered Hangers**
  - Variable Springs
  - Constant Supports
  - Hydraulic Snubbers
  - Vibration Sway Braces
  - Sway Struts
  - Limit Stops
- **Special Fabrication/Miscellaneous**
  - Structural Steel Fabrication
- **Special Design Products per Customer Specifications**
- **Domestic Manufactured Product Line**

## Anvil Markets

- **Fire Protection**
- **Mechanical HVAC/Plumbing**
- **Industrial**
- **Petro Chemical**
- **Refinery**
- **Pulp & Paper**
- **Waste Water, Water Treatment**
- **Marine**
- **Co-generation**
- **Fossil Power**
- **Nuclear Power**
- **Seismic**

## Technical Services

- **DESIGN:**
  - Design services, either on or off site, help you maximize the efficiency of your pipe support systems. These services include:
- **Pipe Hanger design and engineering**
- **Manual and computer-aided drafting**
- **Finite-element modeling**
- **System Analysis**
- **Pipe Stress Analysis**
- **Product qualification testing**
  - environmental static and cycling loads, flow and leak
- **Supervision of client design personnel**
- **HYDRAULIC SNUBBERS:**
  - The Pipe Support Division has the technical expertise, manufacturing facilities and testing equipment to provide extensive design, installation, maintenance and repair or rebuild services for hydraulic shock suppressors.
- **On site service available by certified technicians for fossil and nuclear plants.**

## Pipe Hanger Specifications

- **Federal Spec WW-H-171E and A-A-1192A**
- **Underwriters Laboratory – UL203**
- **Factory Manual (FM)**
- **Manufacturers Standardization Society (MSS) SP-58, SP-69, SP-77, SP-89 and SP-90**
- **National Fire Protection Association (NFPA)**
- **ASME Boiler and Pressure Vessel Code**
  - B31.1 Power Piping
  - B31.3 Chemical Plant and Petroleum Refinery Piping
  - B31.9 Building Services Piping
- **MIL Spec P-15877 Marine Hangers**
- **PLANT SERVICES:**
  - Support walkdowns and verification
  - Support adjustments and materials
  - QA inspection and verification
  - Integrity Analysis
  - Non-destructive Testing
  - Training Programs
- **NUCLEAR:**
  - Services geared to nuclear power market include:
    - Section XI Services
    - Compliance with NRC directives involving piping systems and components
    - Accredited by and granted an “NPT” Nuclear Certificate of Authorization
    - Assessed and Quality activities verified by NUPIC and various individual utilities
    - Commercial grade dedication program.

## Pipe Support Design Systems

- A Powerful System That's Easy to Use
- Comprehensive Engineering Drawings And A Lot More
- A Proven Pipe Support Design Based on Experience

## Electronic Pipe Hanger Design Guide Electronic Pipe Support Catalog

- Accurately size variable spring and constant support hangers.
- View CAD (Computer Aided Design) drawings without costly CAD software.
- Export CAD drawings to most CAD programs (DXF and DWG).
- Quick Retrieval of Product Data
- A Faster Way to Build Product Quotations
- Less Chance for Product Selection Error

## Web Site Address

<http://www.anvilintl.com>

## Anvil Compliances and Approvals

Anvil Fig. No.	Product Types			Applicable Sizes	
	MSS SP-58 & MSS SP-69	Federal Specifications WW-H-171-E	A-A-1192A	UL	FM
14	27	54	27	—	—
40	42	—	42	—	—
55	57	57	57	—	—
65	—	12	—	2½" - 4"	—
66	22	22	22	—	—
67	5	—	5	—	—
69	7	10	7	¾" - 8"	¾" - 8"
86	23	23	23	⅜" - ¾"	⅜" - ¾"
87	23	23	23	⅜" - ¾"	⅜" - ¾"
88	23	23	23	⅜" - ¾"	⅜" - ¾"
92	19 & 23	23	19 & 23	⅜" - ½"	⅜" - ½"
93	19 & 23	23	19 & 23	⅜" - ½"	⅜" - ½"
94	19	19	19	⅝" - ¾"	⅝" - ¾"
95	23	23	23	⅜"	⅜" - ½"
97	9	9	9	—	—
97C	9	9	9	—	—
104	6	6	6	—	—
108	11	11	11	—	—
110R	16	16	16	⅜" - 7/8"	⅜" - 7/8"
114	15	15	15	—	—
133	21	21	21	yes	yes
134	21	21	21	yes	yes
136	—	—	—	⅜" - 7/8"	⅜" - 7/8"
136R	—	—	—	⅜" - 7/8"	⅜" - 7/8"
137	24	24	24	—	—
137C	24	24	24	—	—
138	12	25	12	—	—
138R	12	25	12	—	—
152	—	—	—	⅜" - 7/8"	⅜" - 7/8"
153	—	—	—	⅜" - ¾"	⅜" - ¾"
157	—	—	—	⅜" - 7/8"	⅜" - 7/8"
160	39A & 39B	40A & 40B	39A & 39B	—	—
161	39A & 39B	40A & 40B	39A & 39B	—	—
162	39A & 39B	40A & 40B	39A & 39B	—	—
163	39A & 39B	40A & 40B	39A & 39B	—	—
164	39A & 39B	40A & 40B	39A & 39B	—	—
165	39A & 39B	40A & 40B	39A & 39B	—	—
165A	39A & 39B	40A & 40B	39A & 39B	—	—
166A	39A & 39B	40A & 40B	39A & 39B	—	—
167	40	41	40	—	—
168	40	41	40	—	—
171	41	42	41	—	—
175	44	45	44	—	—
177	41	42	41	—	—
178	49	50	49	—	—
181	43	44	43	—	—
191	37	—	37	—	—
192	38	—	38	—	—
194	31	32	31	—	—
195	32	33	32	—	—
199	33	34	33	—	—
202	34	35	34	⅜" - 5/8"	⅜" - 5/8"
206	34	35	34	⅜" - 5/8"	⅜" - 5/8"
207	34	35	34	⅜" - ½"	⅜" - ½"
212	4	4	4	¾" - 8"	¾" - 8"

## Anvil Compliances and Approvals

Anvil Fig. No.	Product Types			Applicable Sizes	
	MSS SP-58 & MSS SP-69	Federal Specifications WW-H-171-E	A-A-1192A	UL	FM
212FP	4	4	4	—	—
216	4	4	4	—	—
217	25	—	25	—	—
218	30	30	30	¾" - 8"	¾" - 8"
224	2	2	2	—	—
227	25	—	25	—	—
228	28 & 29	30 & 31	28 & 29	—	—
228L	28 & 29	30 & 31	28 & 29	—	—
230	13	13	13	—	—
233	13	13	13	—	—
246	2	2	2	—	—
257	35	—	35	—	—
257A	35	—	35	—	—
258	36	36 & 37	36	—	—
259	37	—	37	—	—
260	1	1	1	¾" - 8"	¾" - 8"
261	8	8	8	1½" - 8"	—
262	26	26	26	—	—
264	38	39	38	—	—
265	36	36 & 37	36	—	—
271	44	45	44	—	—
274	46	47	46	—	—
277	45	46	45	—	—
281	18	19	18	⅜" - ¾"	⅜" - ¾"
282	18	18	18	⅜" - 7/8"	⅜" - 7/8"
283	18	18	18	—	—
285	19	18	18	⅜" - 5/8"	⅜" - 5/8"
290	17	17	17	—	—
290L	17	17	17	—	—
292	28 & 29	28 & 29	28 & 29	—	—
292L	28 & 29	28 & 29	28 & 29	—	—
295	3	3	3	—	—
295A	3	3	3	—	—
295H	3	3	3	—	—
299	14	14	14	—	—
300	1	1	1	—	—
436	35	—	35	—	—
436A	35	—	35	—	—
439	35	—	35	—	—
439A	35	—	35	—	—
590	1	1	1	—	—
595	8	—	8	—	—
600	8	—	8	—	—
CT—65	—	12	—	—	—
CT—69	10	10	10	—	—
CT—99	9	9	9	—	—
CT—99C	9	9	9	—	—
CT—109	2	2	2	—	—
CT—121	8	8	8	—	—
CT—138R	12	25	12	—	—

A type is dependent upon its appropriate installation and use.

## MSS to Anvil and Federal Specification Cross Reference

MSS SP-58 & SP-69 Type	Anvil Fig. No.	Federal Specifications Type		MSS SP-58 & SP-69 Type	Anvil Fig. No.	Federal Specifications Type	
		WW-H-171-E	A-A-1192A			WW-H-171-E	A-A-1192A
1	260	1	1	24	137	24	24
	300	1	1		137C	24	24
	590	1	1	25	227	—	25
2	224	2	2		217	—	25
	246	2	2	26	262	26	26
	CT-109	2	2	27	14	54	27
3	295	3	3	28	228	30 & 31	28 & 29
	295A	3	3		228L	30 & 31	28 & 29
	295H	3	3		292	28 & 29	28 & 29
4	212	4	4		292L	28 & 29	28 & 29
	212FP	4	4	30	218	30	30
	216	4	4	31	194	32	31
5	67	—	5	32	195	33	32
6	104	6	6	33	199	34	33
7	69	10	7	34	202	35	34
8	261	8	8		206	35	34
	595	—	8		207	35	34
	600	—	8	35	257	—	35
	CT-121	8	8		257A	—	35
9	97	9	9		436	—	35
	97C	9	9		436A	—	35
	CT-99	9	9		439	—	35
	CT-99C	9	9		439A	—	35
10	CT-69	10	10	36	258	36 & 37	36
11	108	11	11		265	36 & 37	36
12	138	25	12	37	191	—	37
	138R	25	12		259	—	37
	CT-138R	25	12	38	192	—	38
13	230	13	13		264	39	38
	233	13	13	39	160	40A & 40B	39A & 39B
14	299	14	14		161	40A & 40B	39A & 39B
15	114	15	15		162	40A & 40B	39A & 39B
16	110R	16	16		163	40A & 40B	39A & 39B
17	290	17	17		164	40A & 40B	39A & 39B
	290L	17	17		165	40A & 40B	39A & 39B
18	281	19	18		165A	40A & 40B	39A & 39B
	282	18	18		166A	40A & 40B	39A & 39B
	283	18	18	40	167	41	40
19	94	19	19		168	41	40
	285	18	18	41	171	42	41
	92	23	19 & 23		177	42	41
	93	23	19 & 23	42	40	—	42
21	133	21	21	43	181	44	43
	134	21	21	44	175	45	44
22	66	22	22		271	45	44
23	86	23	23	45	277	46	45
	87	23	23	46	274	47	46
	88	23	23	49	178	50	49
	95	23	23	57	55	57	57

A type is dependent upon its appropriate installation and use.

## WW-H-171E to Anvil and Federal Specification Cross Reference

WW-H-171-E	Anvil Fig. No.	Product Types		WW-H-171-E	Anvil Fig. No.	Product Types	
		MSS SP-58 & SP-69	Federal Spec. A-A-1192A			MSS SP-58 & SP-69	Federal Spec. A-A-1192A
1	260	1	1	24	137	24	24
	300	1	1		137C	24	24
	590	1	1	25	138	12	12
2	224	2	2		138R	12	12
	246	2	2		CT-138R	12	12
	CT-109	2	2	26	262	26	26
3	295	3	3		292	28 & 29	28 & 29
	295A	3	3		292L	28 & 29	28 & 29
	295H	3	3	30	218	30	30
4	212	4	4		228	28 & 29	28 & 29
	212FP	4	4		228L	28 & 29	28 & 29
	216	4	4	32	194	31	31
6	104	6	6	33	195	32	32
8	261	8	8	34	199	33	33
	CT-121	8	8	35	202	34	34
9	97	9	9		206	34	34
	97C	9	9		207	34	34
	CT-99	9	9	36	258	36	36
	CT-99C	9	9		265	36	36
10	69	7	7	39	264	38	38
	CT-69	10	10	40	160	39A & 39B	39A & 39B
11	108	11	11		161	39A & 39B	39A & 39B
12	65	—	—		162	39A & 39B	39A & 39B
	CT-65	—	—		163	39A & 39B	39A & 39B
13	230	13	13		164	39A & 39B	39A & 39B
	233	13	13		165	39A & 39B	39A & 39B
14	299	14	14		165A	39A & 39B	39A & 39B
15	114	15	15		166A	39A & 39B	39A & 39B
16	110R	16	16	41	167	40	40
17	290	17	17		168	40	40
	290L	17	17	42	171	41	41
18	282	18	18		177	41	41
	283	18	18	44	181	43	43
	285	19	18	45	175	44	44
19	281	18	18		271	44	44
	94	19	19	46	277	45	45
21	133	21	21	47	274	46	46
	134	21	21	50	178	49	49
22	66	22	22	54	14	27	27
23	86	23	23	57	55	57	57
	87	23	23				
	88	23	23				
	95	23	23				
	92	19 & 23	19 & 23				
	93	19 & 23	19 & 23				

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